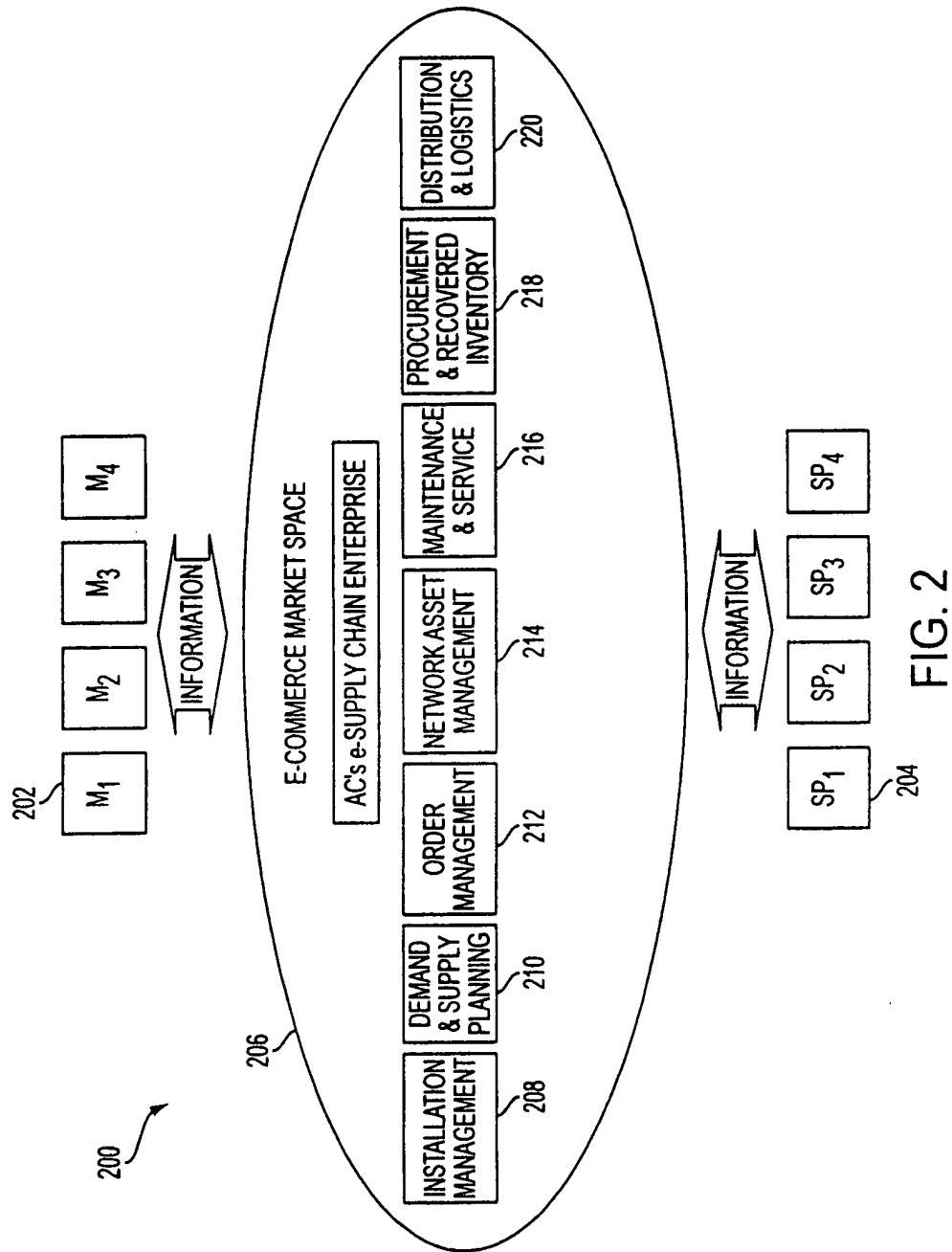


FIG. 1



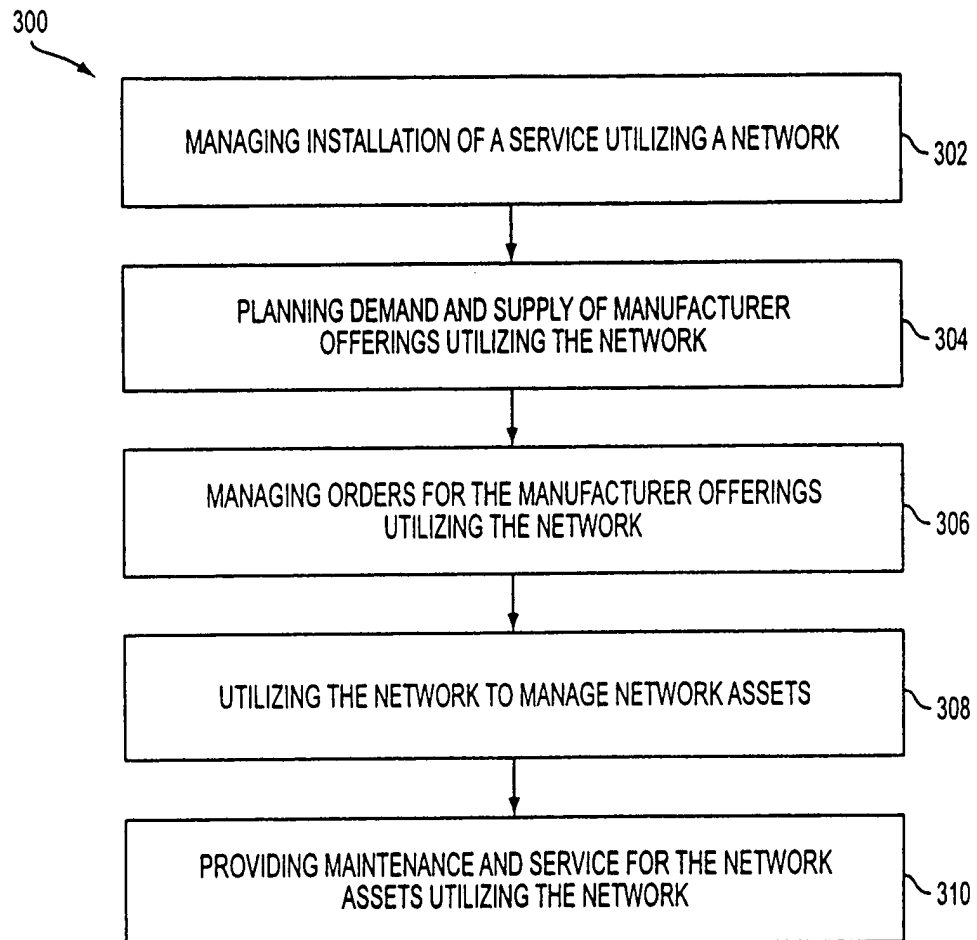


FIG. 3

400	408 INSTALLATION MANAGEMENT	410 DEMAND & SUPPLY PLANNING	412 ORDER MANAGEMENT	414 NETWORK ASSET MANAGEMENT	416 MAINTENANCE AND SERVICE
402 REVENUE ENHANCEMENT  · FASTER TIME TO SITE INTEGRATION · BETTER ON-LINE NETWORK PERFORMANCE · RAPID INTEGRATION OF ACQUISITION · FASTER ORDER TO CASH	SP	SP	M	SP SP	SP
	SP M	SP M SP	SP M	SP	SP M
	SP M	SP	SP M	SP	
404 COST REDUCTION  · DUPLICATION REDUCTION · DISTRIBUTION FACILITY RATIONALIZATION · PROCUREMENT RATIONALIZATION · SIMPLIFIED PROCESSES · TRANSPORTATION RATIONALIZATION	SP M	SP M	SP M		
	SP M	SP	SP M		
406 CAPITAL REDUCTION  · REDUCED INVENTORIES · MANUFACTURING CAPACITY UTILIZATION	SP M	SP M	M		
	SP	SP			

FIG. 4

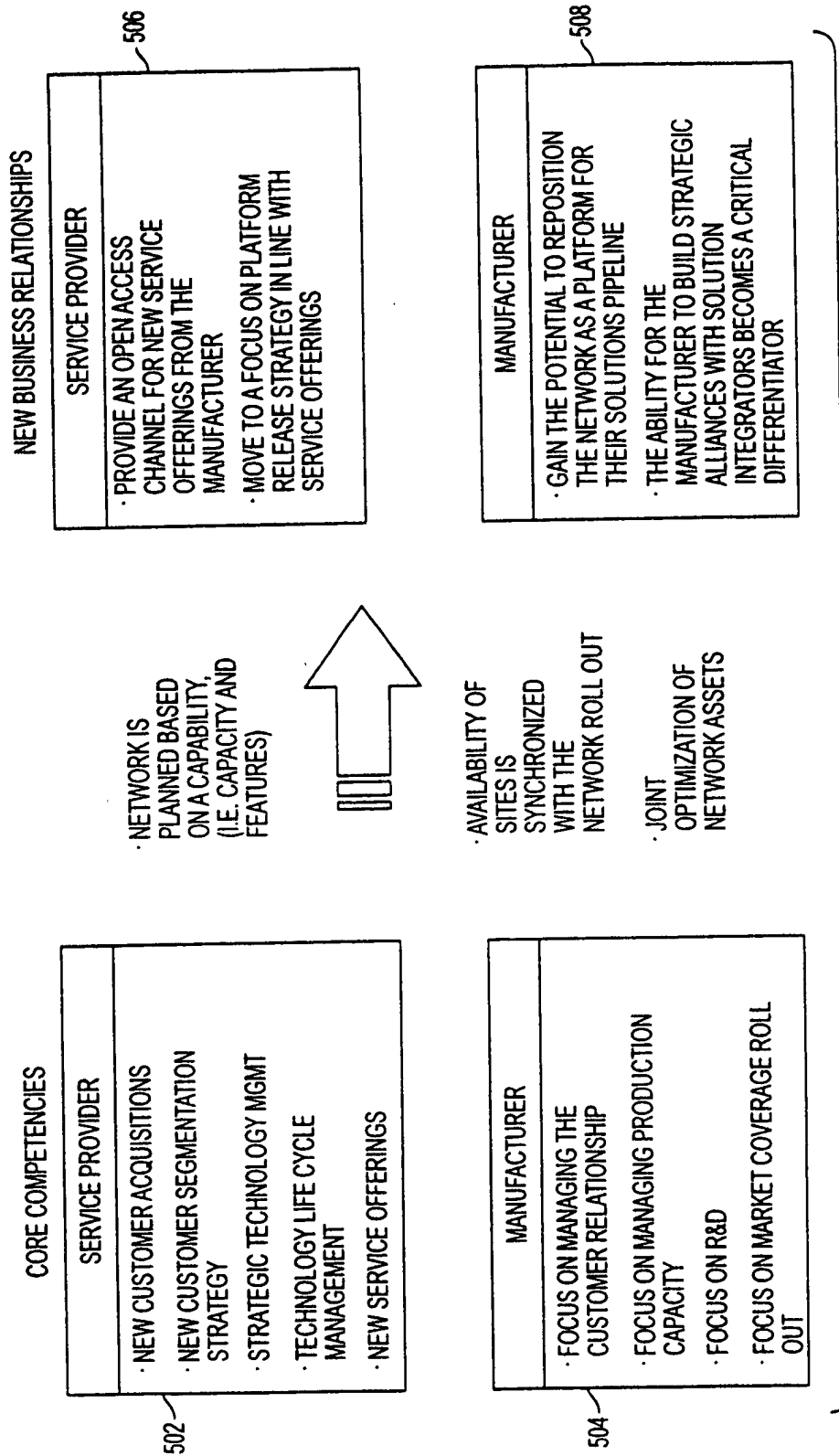


FIG. 5

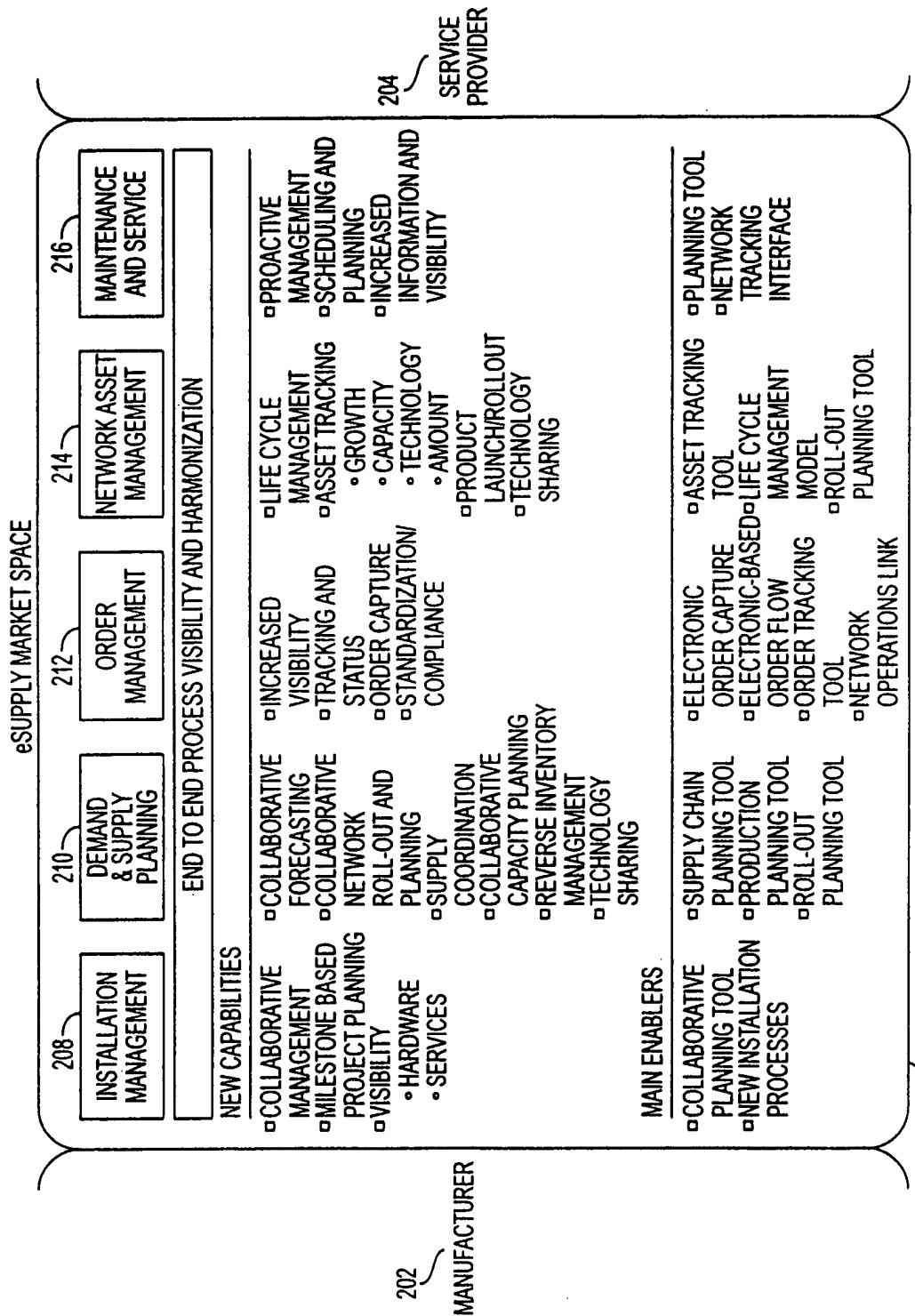


FIG. 6

206

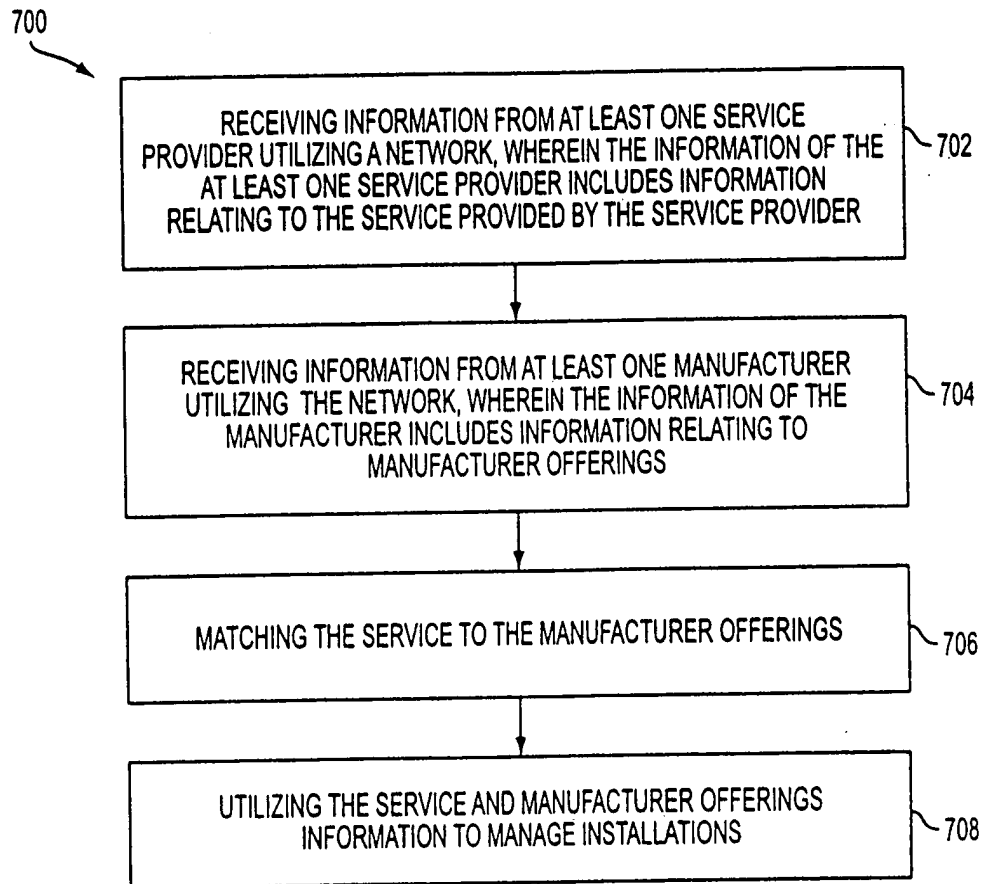


FIG. 7

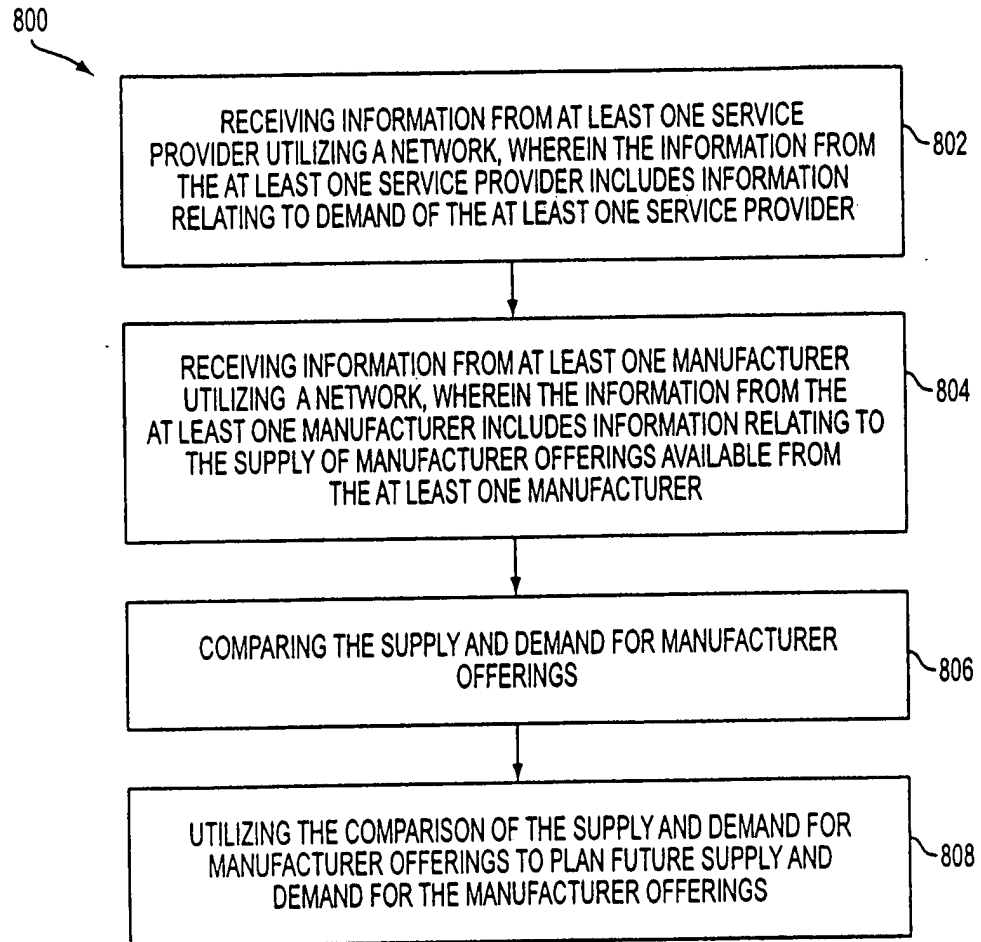


FIG. 8



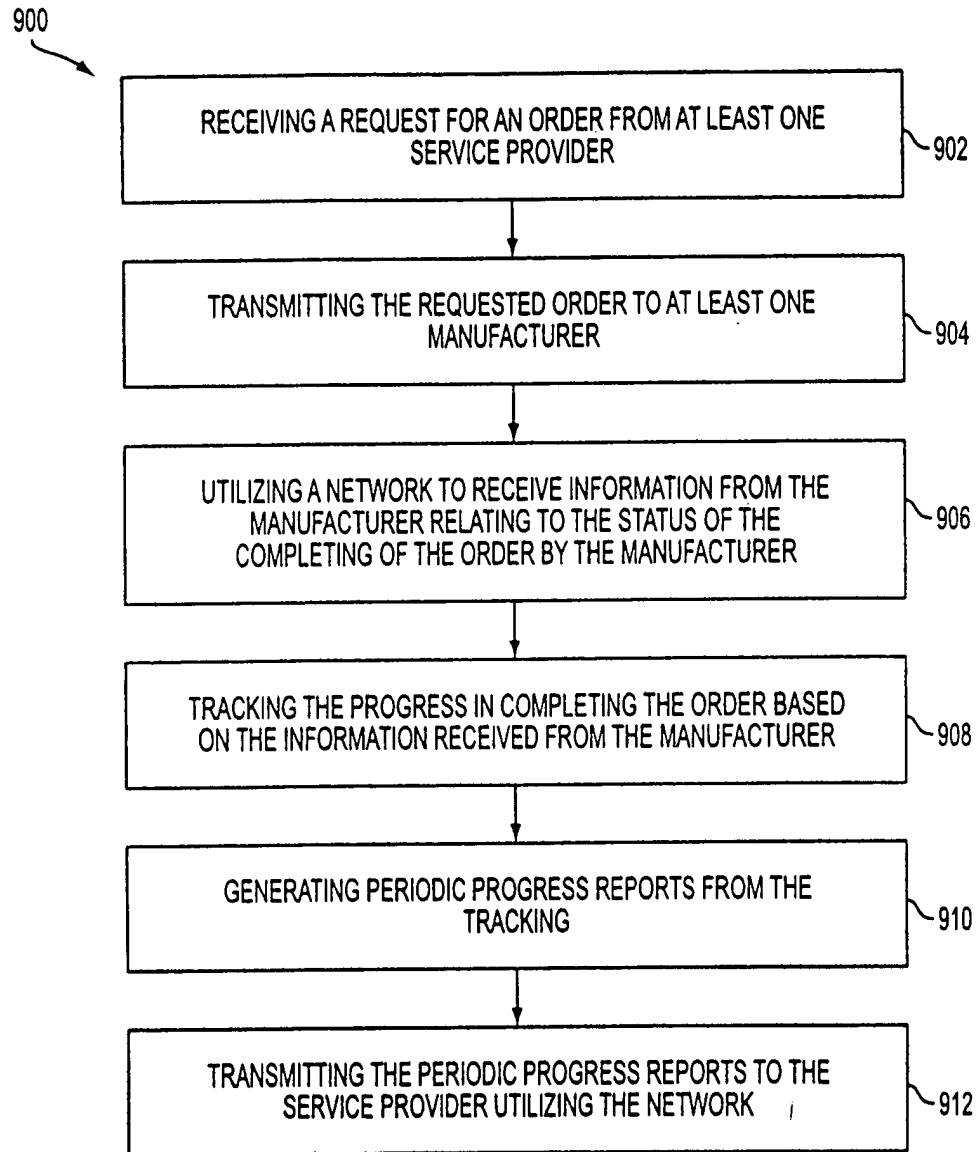


FIG. 9

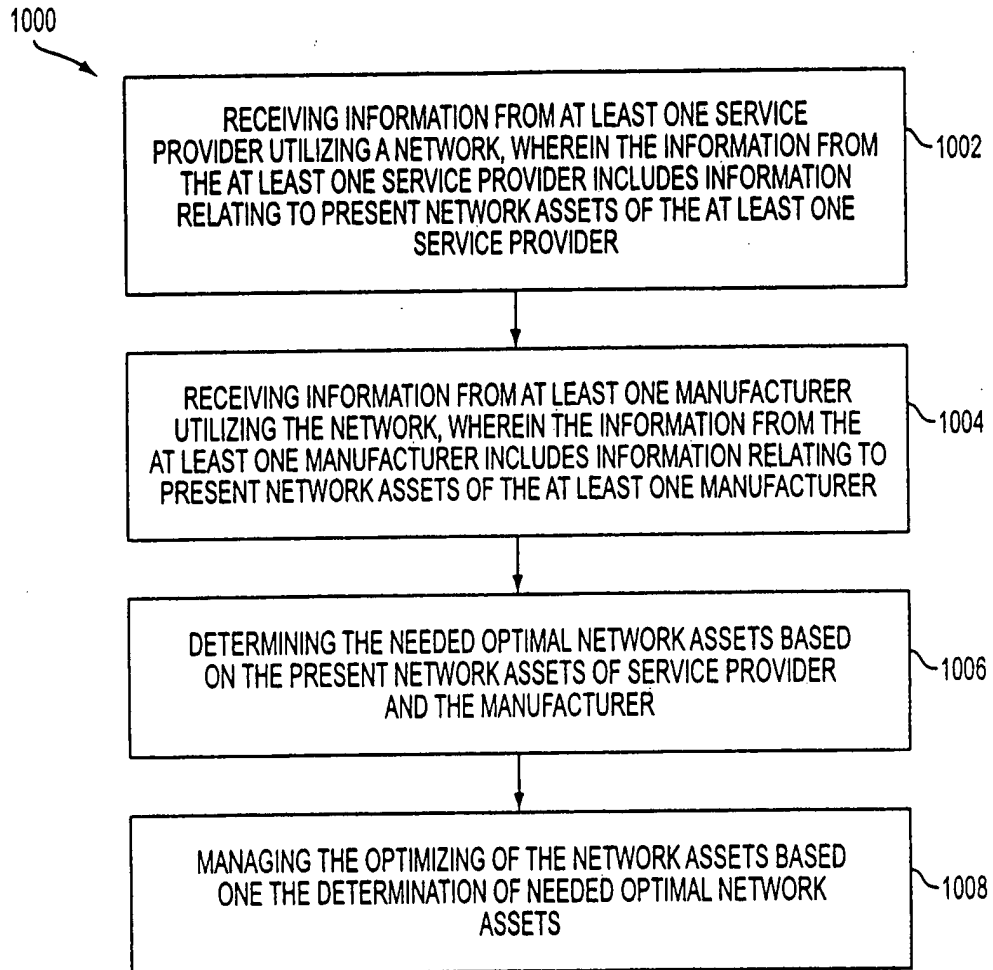


FIG. 10

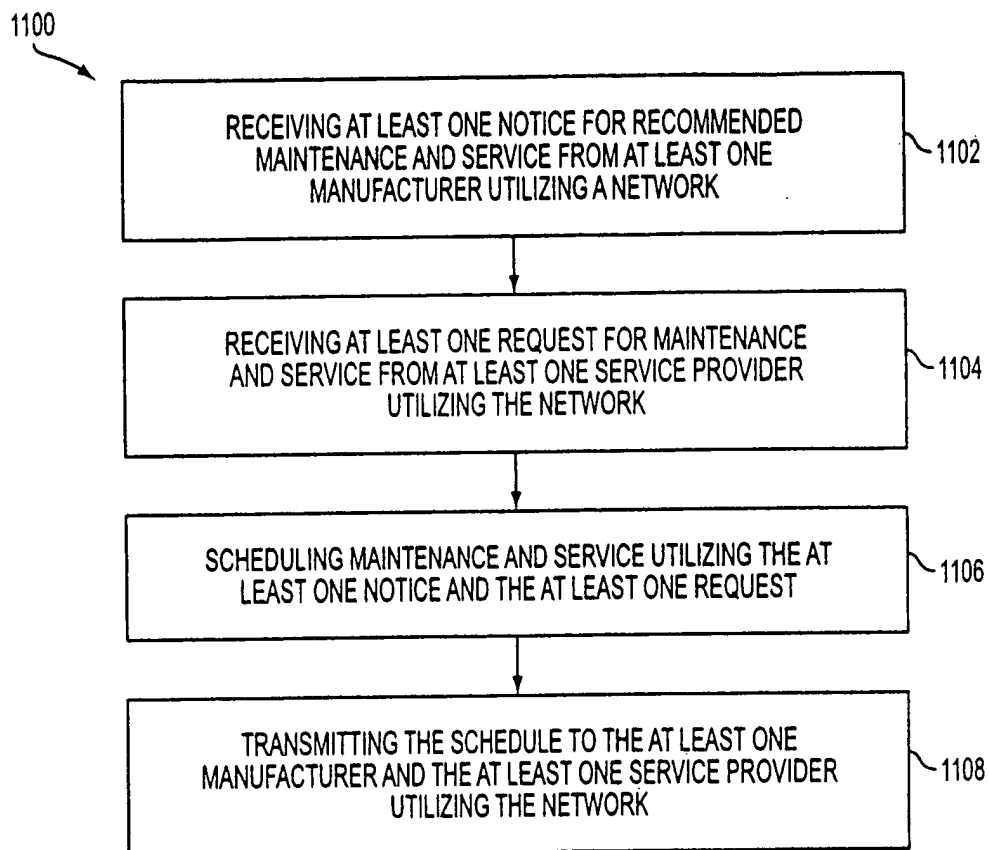


FIG. 11

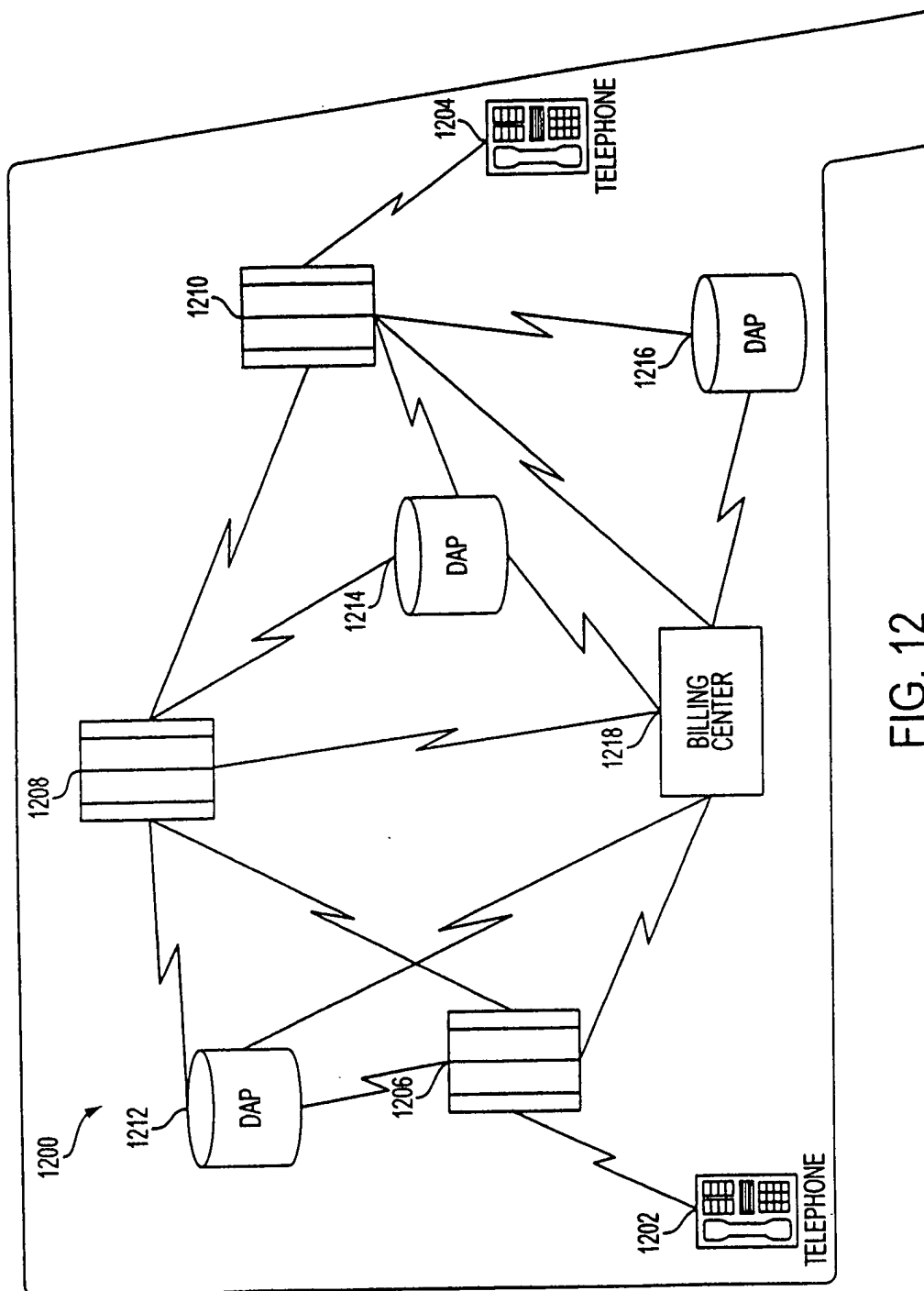


FIG. 12

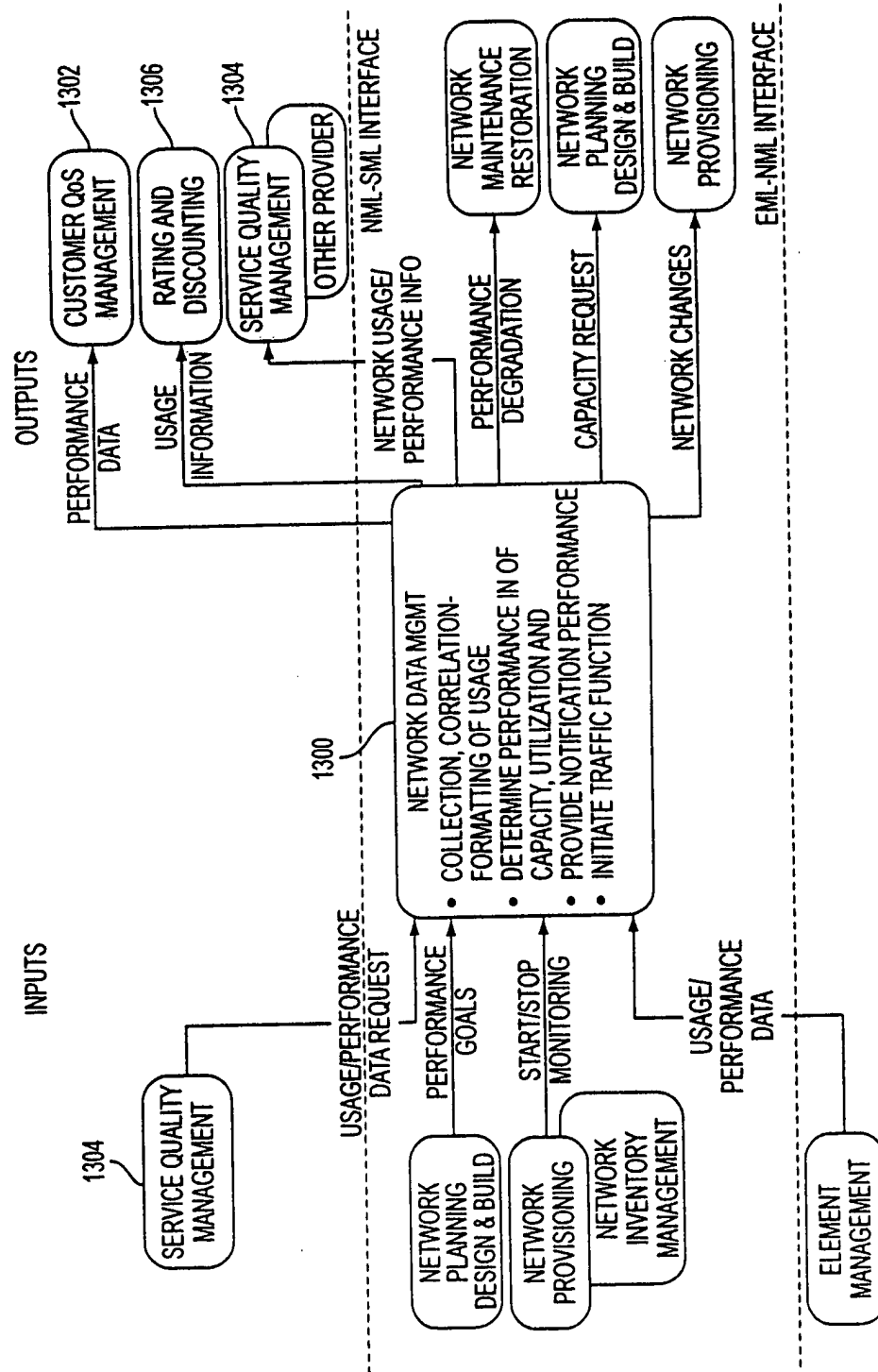


FIG. 13

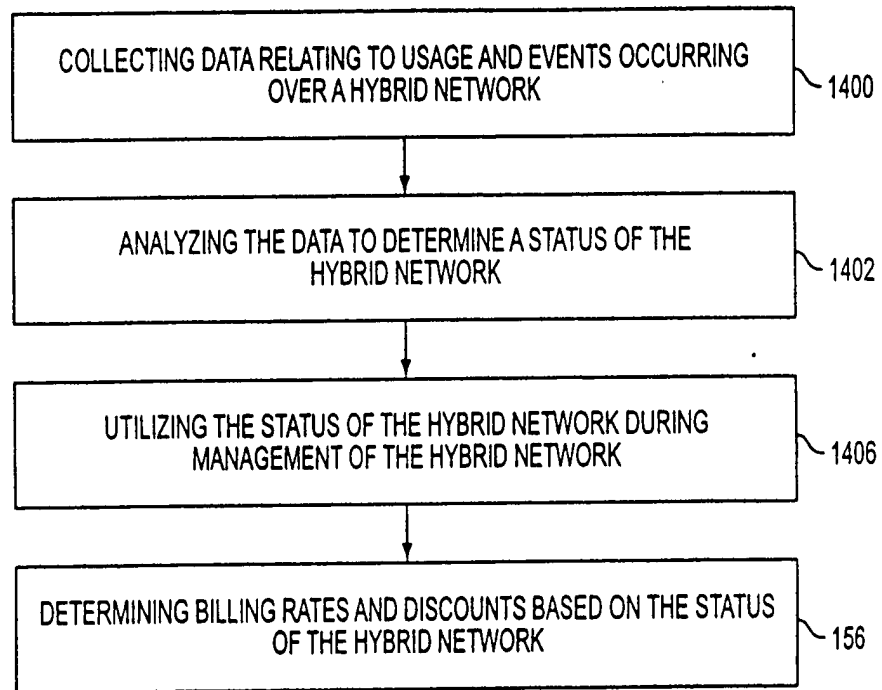


FIG. 14

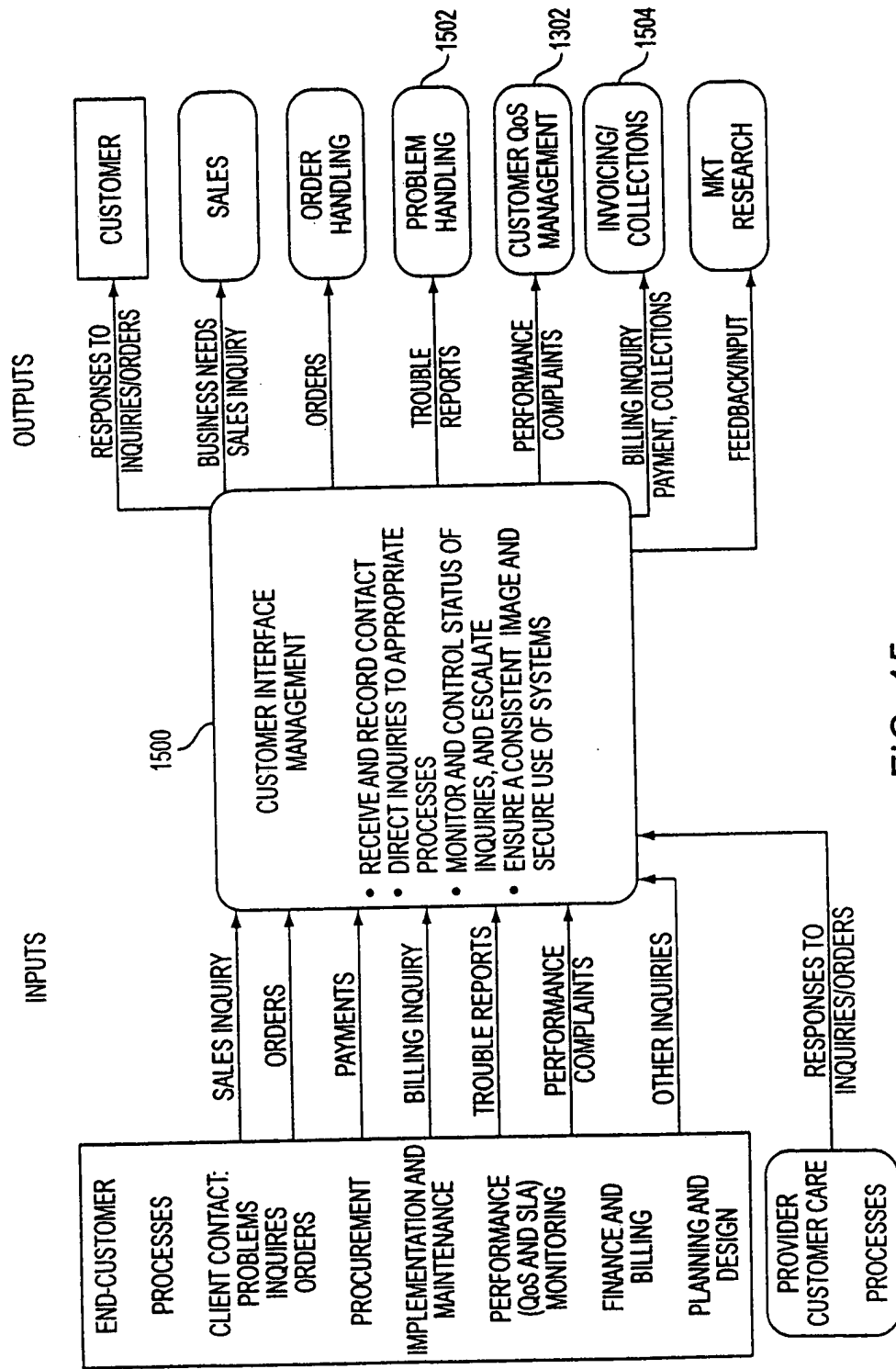


FIG. 15

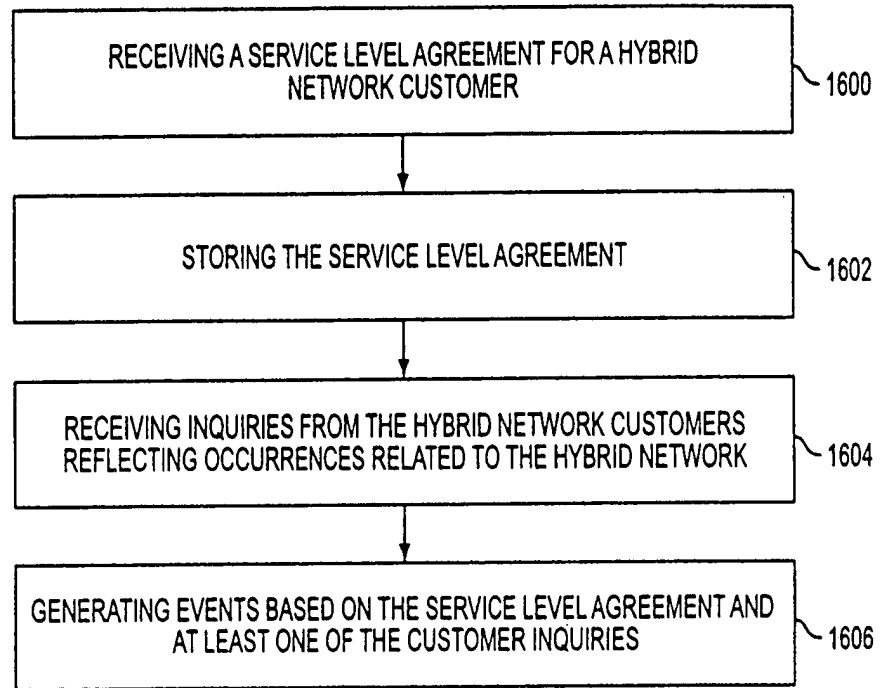


FIG. 16



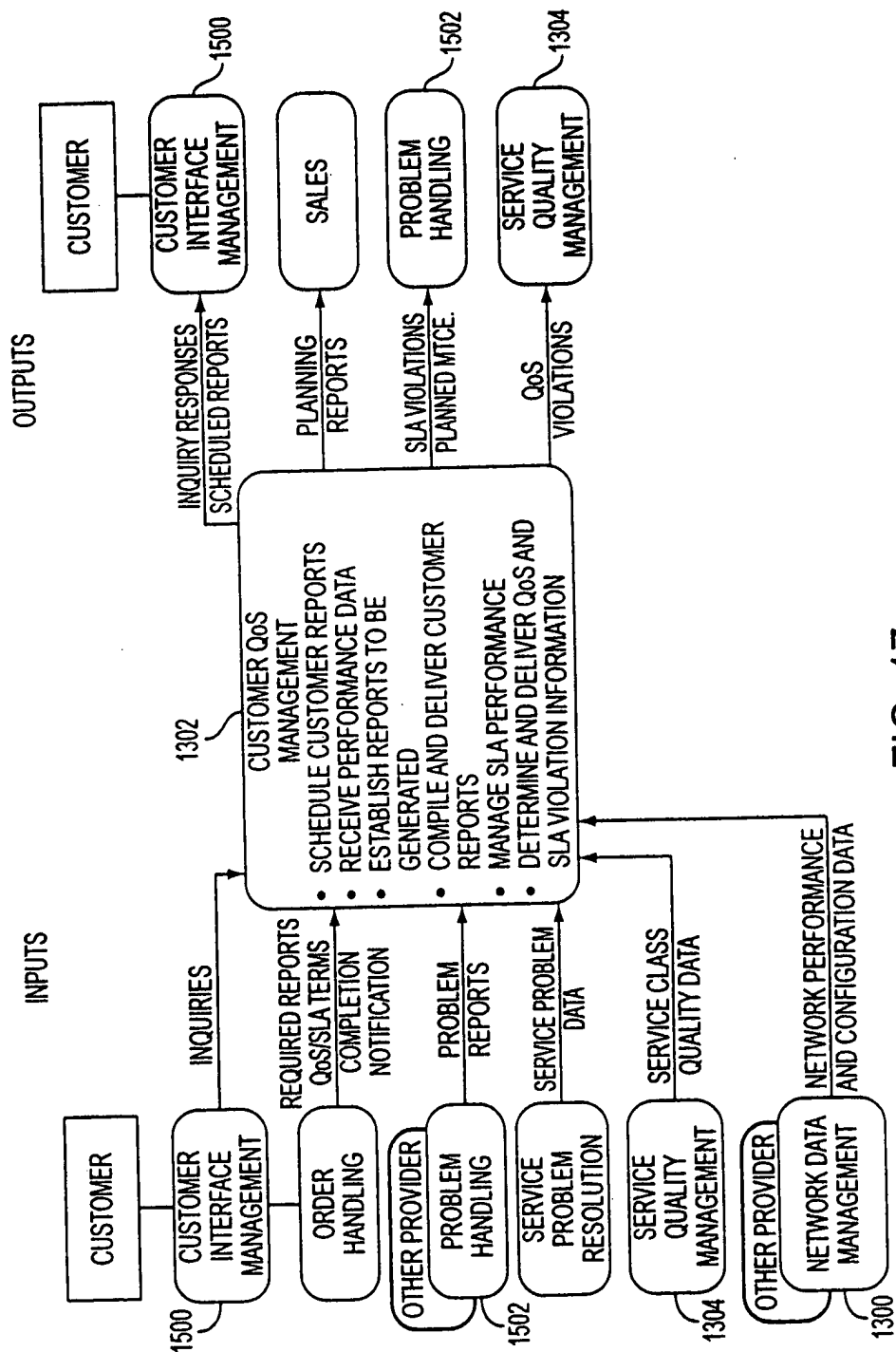


FIG. 17

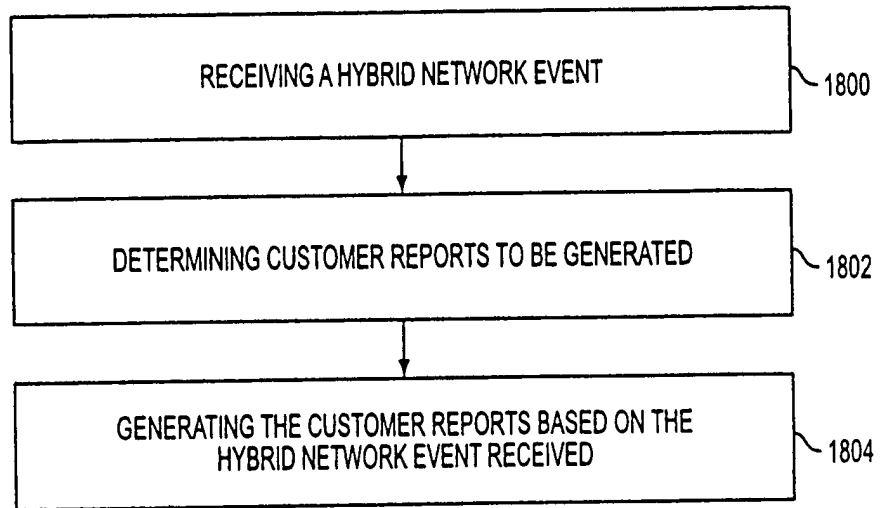


FIG. 18

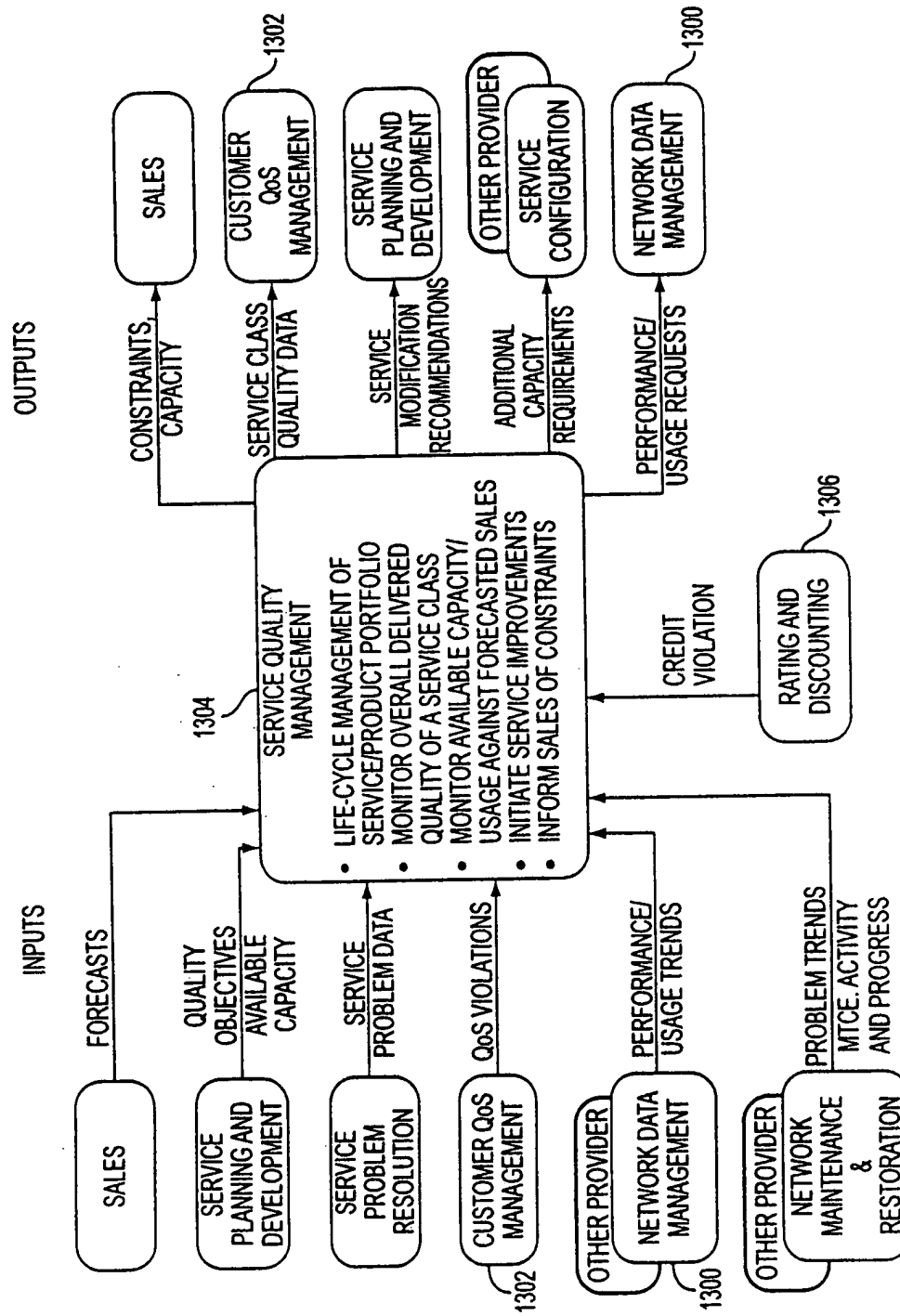


FIG. 19

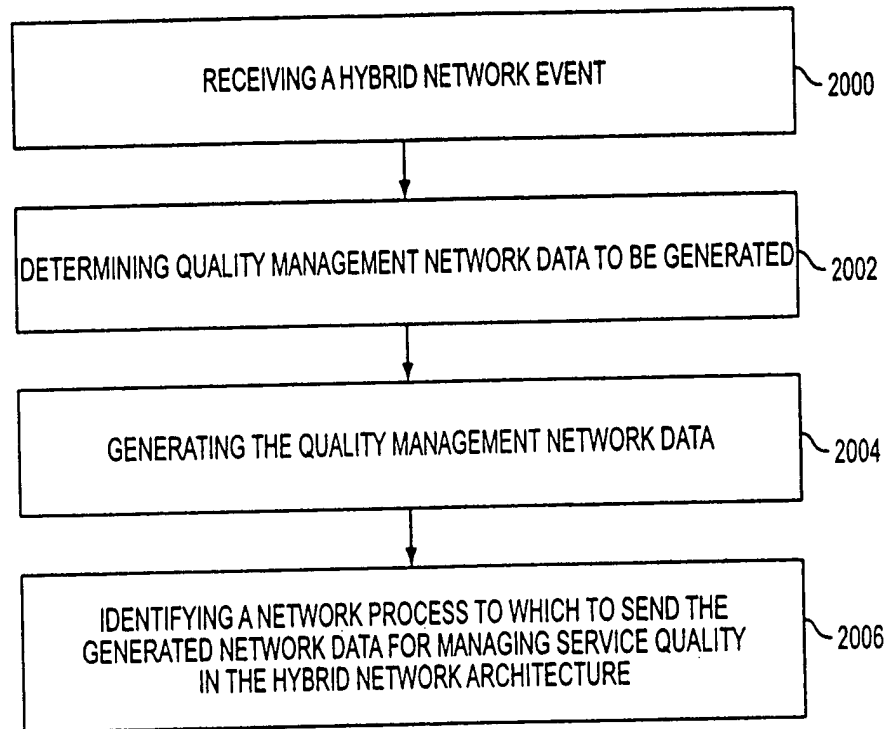
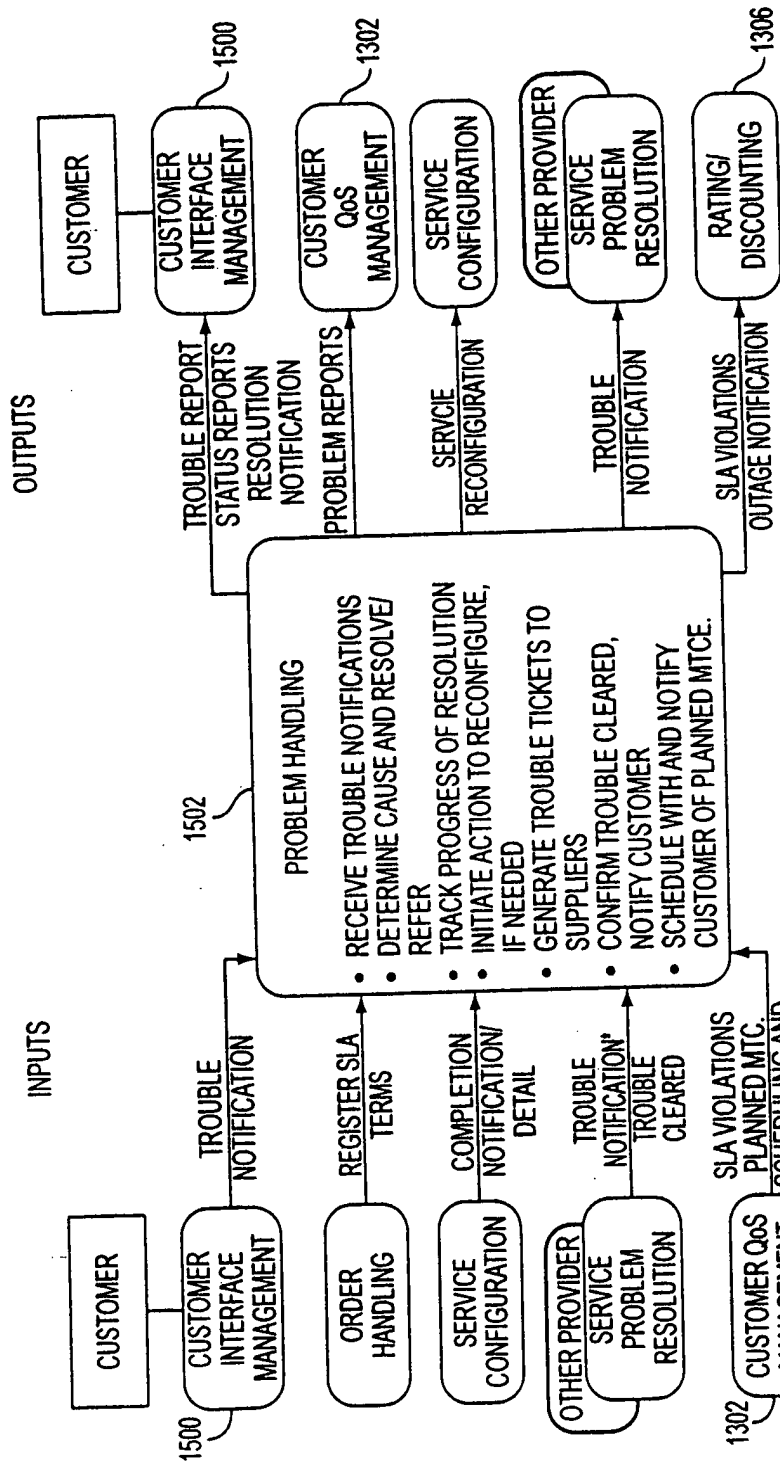


FIG. 20



\* WHEN A TROUBLE IS REPORTED BY THE CUSTOMER, A TROUBLE REPORT MAY BE SENT TO SERVICE PROBLEM RESOLUTION FOR CORRECTION. WHEN A TROUBLE IS IDENTIFIED BY SERVICE PROBLEM RESOLUTION (VIA SERVICE QUALITY MANAGEMENT OR NETWORK MAINTENANCE AND RESTORATION) THEN PROBLEM HANDLING IS NOTIFIED IN ORDER TO INFORM THE CUSTOMER OF THE PROBLEM.

FIG. 21

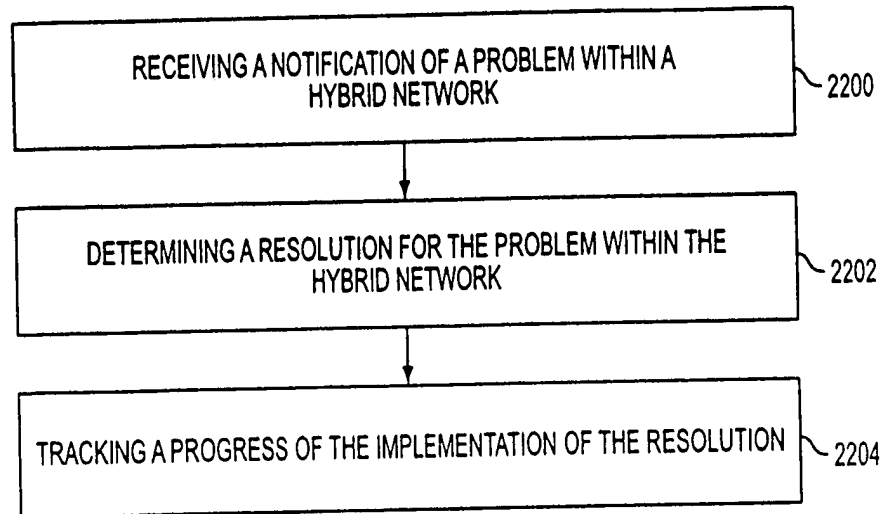


FIG. 22

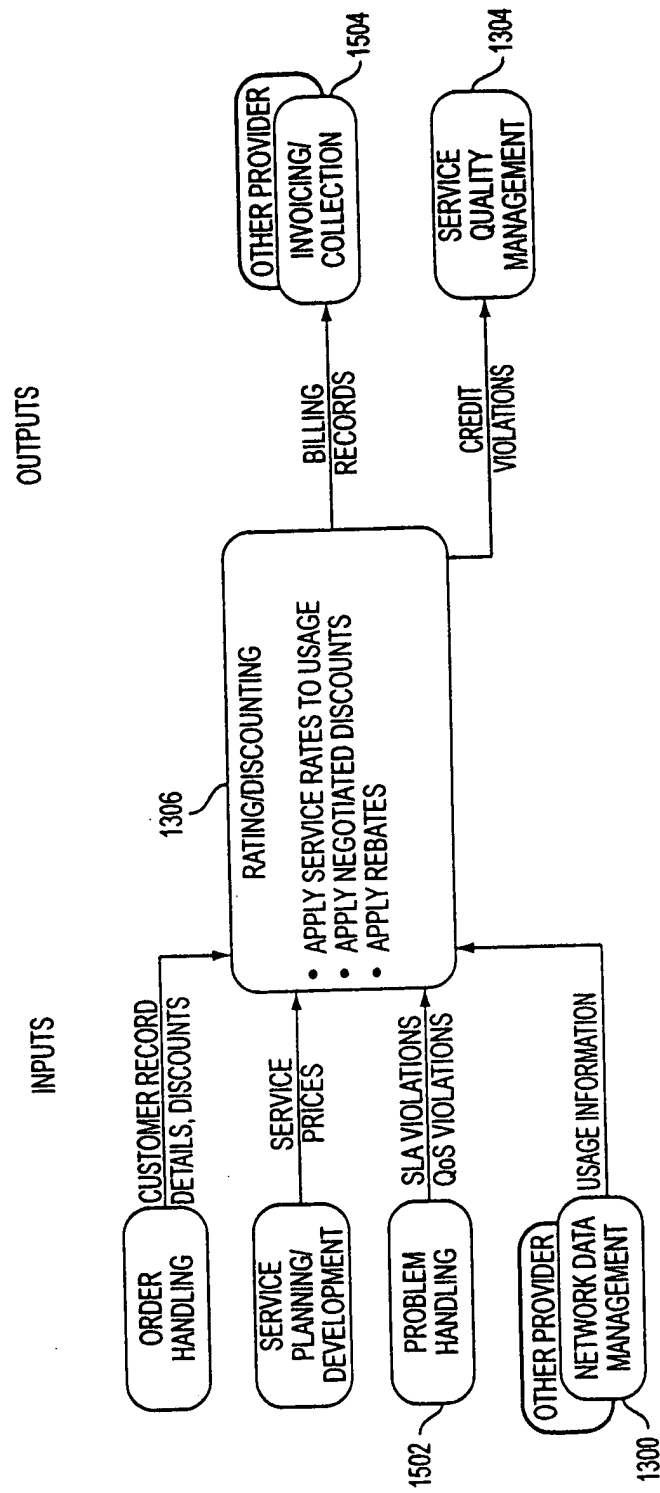


FIG. 23

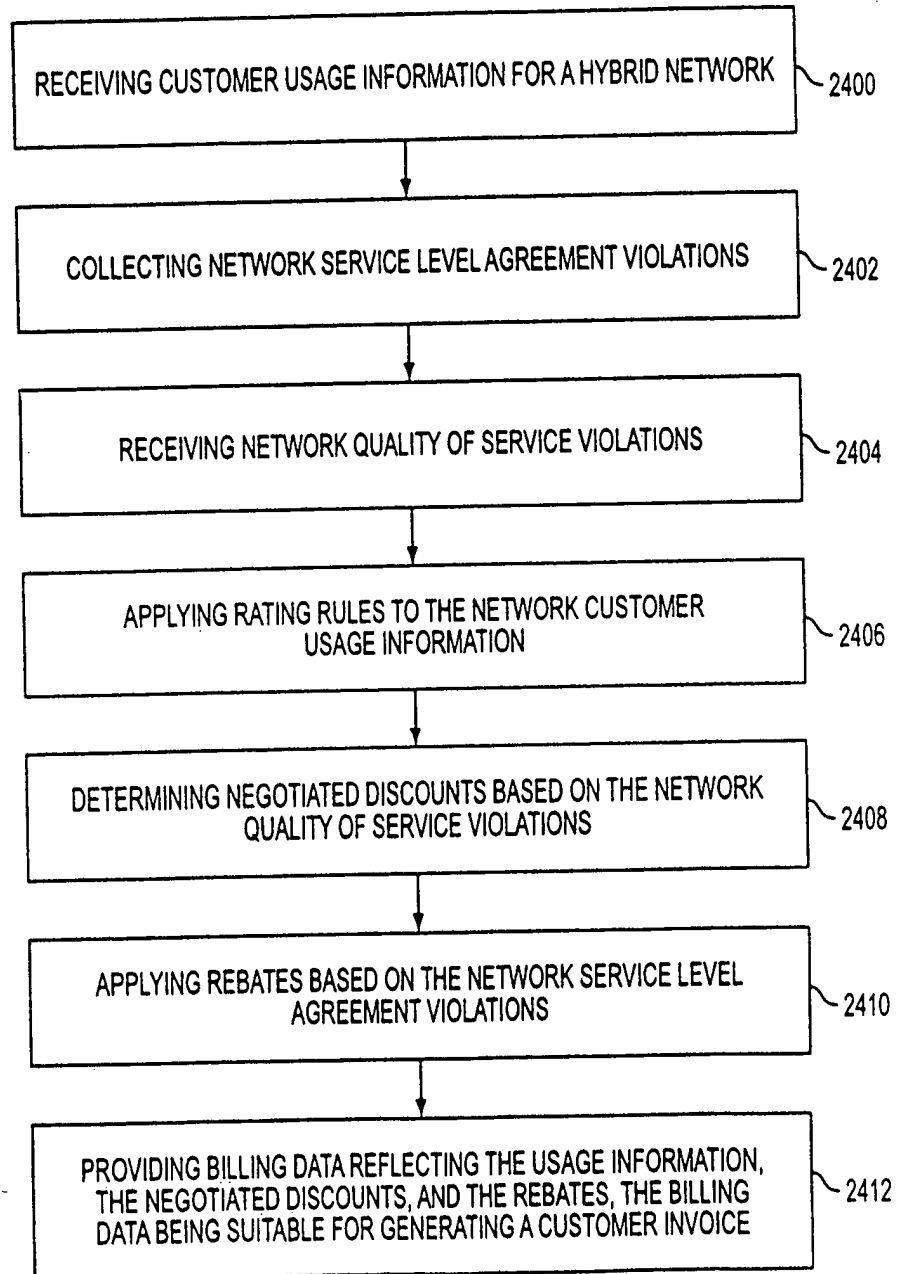


FIG. 24



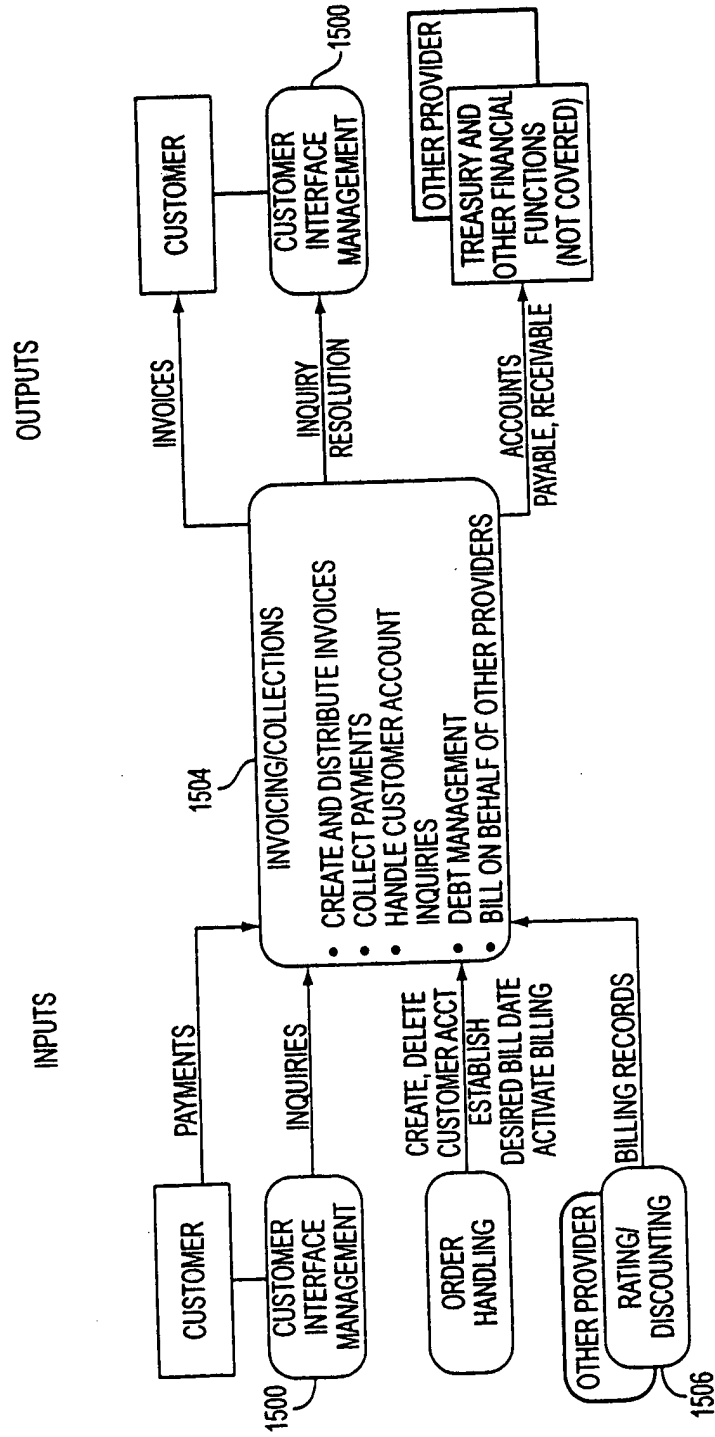


FIG. 25

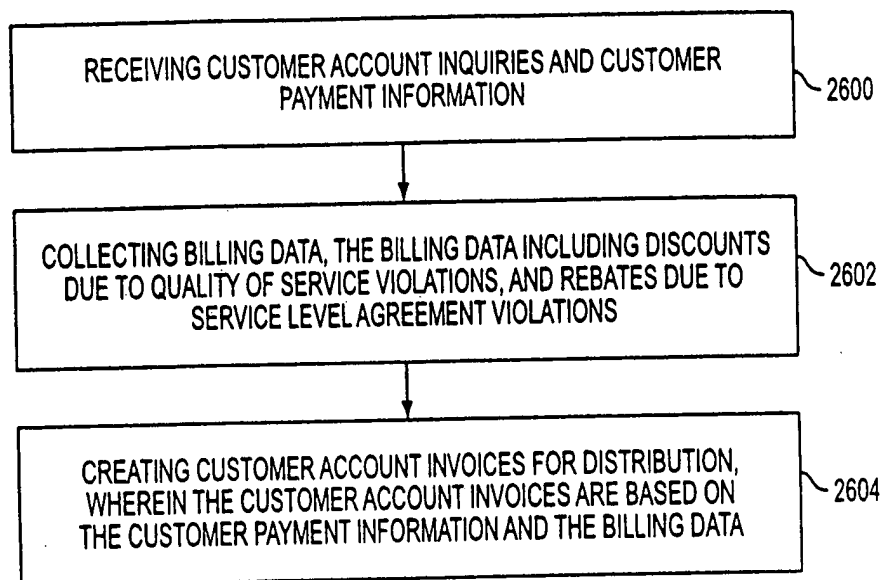


FIG. 26

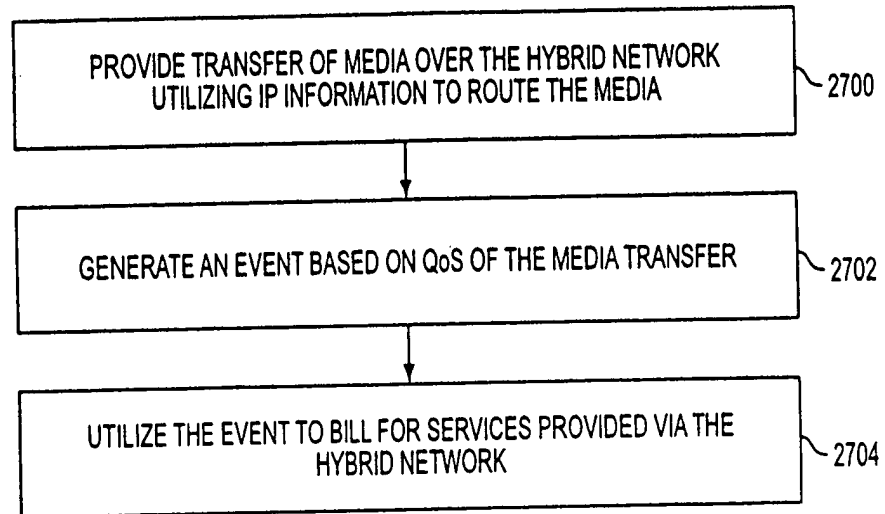


FIG. 27

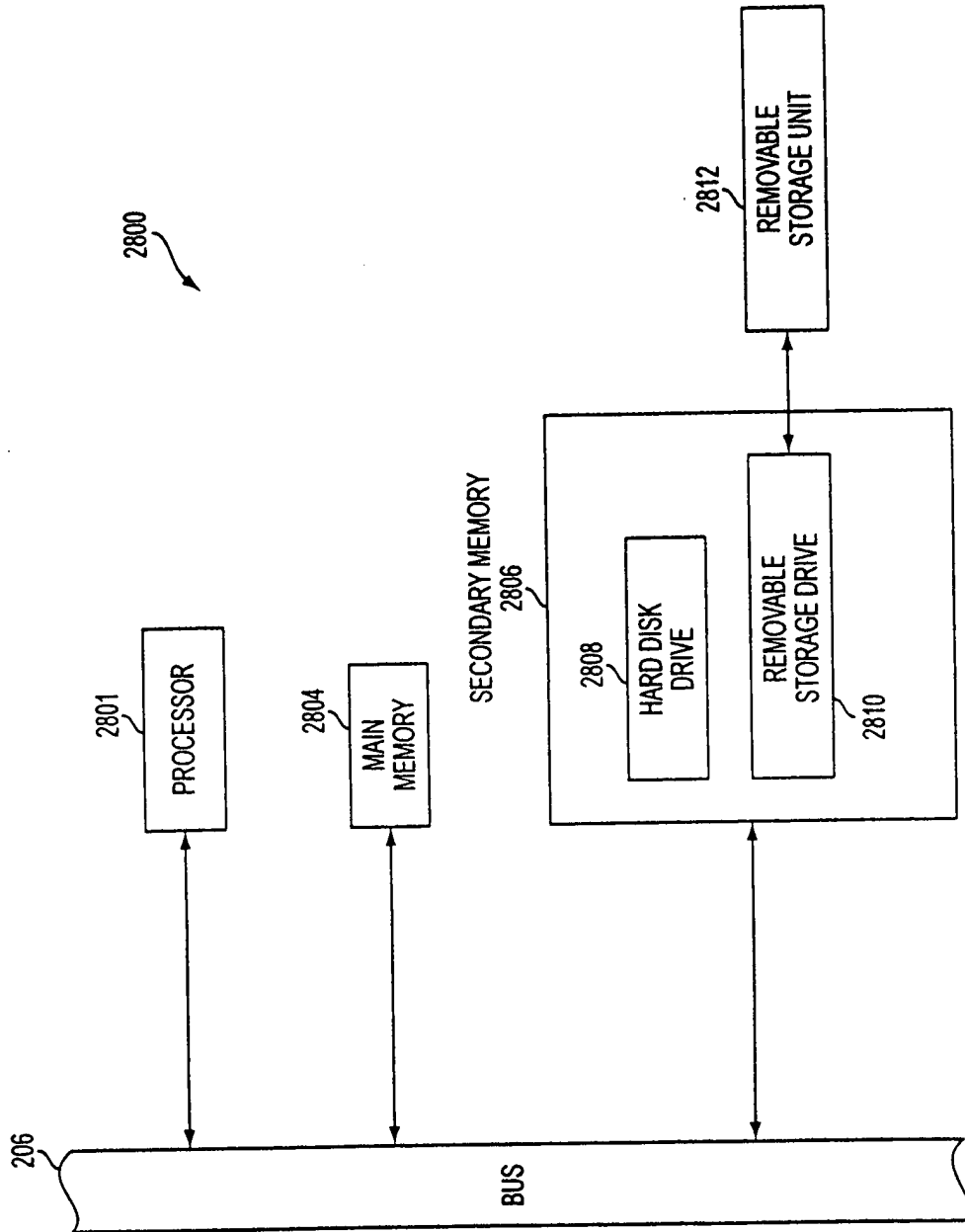


FIG. 28

# Replacement Sheet

MSB																LSB															
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														
WORD	00	CR ID								CD ID																					
	01	TP1 BITS 0-15																													
	02	TP1 BITS 16-31																													
	03	TP3 BITS 0-12												TP6 0-2																	
	04	TP6 BITS 3-12										TP7 BITS 0-5																			
	05	TP7 BITS 6-21																													
	06	OPL. ORIGINATING PORT 0-15																													
	07	OP	TPL. TERMINATING PORT 0-14																												
	08	TP	OTG. ORIGINATING TRUNK GROUP													TT															
	09	TERMINATING TRUNK GROUP (1-12)												TP3Q																	
	10	TP6Q	ACTION CODE						OTC				TTC																		
	11	ID1				ID2				ANI INDEX																					
	12	CLI 1				CLI 2				CLI 3				CLI 4																	
	13	CLI 5				CLI 6				CLI 7				CLI 8																	
	14	CLI 9				CLI 10				A1				A2																	
	15	A3				A4				A5				A6																	
	16	A7				A8				A9				A10																	
	17	A11				A12				A13				A14																	
	18	A15				A16				A17				A18																	
	19	A19				A20				A21				A22																	
	20	D1				D2				D3				D4																	
	21	D5				D6				D7				D8																	
	22	D9				D10				D11				D12																	
	23	D13				D14				D15				D16																	
	24	D17				PTD1				PTD2				PTD3																	
	25	PTD4				PTD5				PTD6				PTD7																	
	26	PTD8				PTD9				PTD10																					
	27	FC				TMC				KAT				TP7Q																	
	28	EC, ENTRY CODE								PD				ND ID				DIVID													
	29	D0	CC		IN	SC		CD	DE	DT			SA		NOCLI																
	30	CN1				CN2				CN3				CN4																	
31	ACIF				SS7 RELEASE CODE								NCIDSEQ				NL	RS													
BIT		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														

FIG. 29

# Replacement Sheet

MSB																LSB	
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
WORD	00	CR ID						CD ID									
	01	TP1 BITS 0-15															
	02	TP1 BITS 16-31															
	03	TP3 BITS 0-12												TP6 0-2			
	04	TP6 BITS 3-12									TP7 BITS 0-5						
	05	TP7 BITS 6-21															
	06	OPL. ORIGINATING PORT 0-15															
	07	OP	TPL. TERMINATING PORT 0-14														
	08	TP	OTG. ORIGINATING TRUNK GROUP													TT	
	09	TERMINATING TRUNK GROUP (1-12)												TP3Q			
	10	TP6Q	ACTION CODE						OTC				TTC				
	11	ID1			ID2			ANI INDEX									
	12	CLI 1			CLI 2			CLI 3				CLI 4					
	13	CLI 5			CLI 6			CLI 7				CLI 8					
	14	CLI 9			CLI 10			CLI 11				CLI 12					
	15	CLI 13			CLI 14			CLI 15				A1					
	16	A2			A3			A4				A5					
	17	A6			A7			A8				A9					
	18	A10			A11			A12				A13					
	19	A14			A15			A16				A17					
	20	A18			A19			A20				A21					
	21	A22			A23			A24				A25					
	22	A26			A27			A28				A29					
	23	A30			A31			A32				A33					
	24	A34			A35			A36				A37					
	25	A38			A39			A40				A41					
	26	A42			A43			A44				A45					
	27	FC			TMC			KAT				TP7Q					
	28	EC, ENTRY CODE						PD			ND ID				DIVID		
	29	D0	MN	CC	IN		SC	CD	DE	DT			SA	NOCLI			
	30	CN1			CN2			CN3					CN4				
31	ACIF			SS7 RELEASE CODE								NCIDSEQ			NL	RS	
BIT		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

FIG. 30

# Replacement Sheet

MSB																LSB			
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
WORD	32																		
	33																		
	34	ID1				ID2				ID3				ID4					
	35	ID5				ID6				ID7				ID8					
	36	ID9				ID10				ID11				ID12					
	37	ID13				ID14				ID15				ID16					
	38	ID17				ID18				ID19				ID20					
	39	ID21				ID22				ID23				ID24					
	40	ID25				PTD1				PTD2				PTD3					
	41	PTD4				PTD5				PTD6				PTD7					
	42	PTD8				PTD9				PTD10				PTD11					
	43	PTD12				PTD13				PTD14				PTD15					
	44	EIR CALL TYPE								OVFAL								CB	
	45	OVFCL				DTA 1				DTA 2				DTA 3					
	46	DTA 4				DTA 5				DTA 6				DTA 7					
	47	DTA 8				DTA 9				DTA 10				DTA 11					
	48	DTA 12				DTA 13				DTA 14				DTA 15					
	49	OVFC								DTAC								NCID	
	50	NETWORK CALL IDENTIFIER (NCID)																	
	51	NETWORK CALL IDENTIFIER (NCID)																	
	52	NETWORK CALL IDENTIFIER (NCID)																	
	53	NETWORK CALL IDENTIFIER (NCID)																	
	54	NETWORK CALL IDENTIFIER (NCID)																	
	55																		
	56																		
	57																		
	58																		
	59									OUS TYPE								OUIE	
	60	OUIE COUNT CONT.														OVFCS			
	61	ORIGINATING NX64 BITMAP (1-16)																	
	62	ORIG NX64 BITMAP (17-24)								TERM NX64 BITMAP (17-24)									
	63	TERMINATING NX64 BITMAP (9-24)																	
BIT		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		

FIG. 31

# Replacement Sheet

MSB																LSB		
BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																		
WORD	00	CR ID					CD ID											
	01	TP1 BITS 0-15																
	02	TP1 BITS 16-31																
	03	TP4 BITS 0-12												TP6 0-2				
	04	TP6 BITS 3-12										TP7 BITS 0-5						
	05	TP7 BITS 6-21																
	06	OPL. ORIGINATING PORT 0-15																
	07	OP	TPL. TERMINATING PORT 0-14															
	08	TP	OTG. ORIGINATING TRUNK GROUP													TT		
	09	TERMINATING TRUNK GROUP (1-12)												TP3Q				
	10	TP6Q	ACTION CODE					OTC					TTC					
	11	ID1				ID2				ONACC					TNACC			
	12	CLI 1				CLI 2				CLI 3					CLI 4			
	13	CLI 5				CLI 6				CLI 7					CLI 8			
	14	CLI 9				CLI 10				A1					A2			
	15	A3				A4				A5					A6			
	16	A7				A8				A9					A10			
	17	A11				A12				A13					A14			
	18	A15				A16				A17					A18			
	19	A19				A20				A21					A22			
	20	D1				D2				D3					D4			
	21	D5				D6				D7					D8			
	22	D9				D10				D11					D12			
	23	D13				D14				D15					D16			
	24	D17				OPIN												
	25	OPIN		TPS BITS 0-12														
	26	RN1				RN2				RN3				RN4				
	27	FC				TMC				KAT				TP7Q				
	28	EC, ENTRY CODE						PD			ND ID				DIVID			
	29	D0	CC		IN	SC		CD	DE	DT	PP	XC	SA	NOCLI				
	30	CN1				CN2				CN3				CN4				
	31	ACIF				SS7 RELEASE CODE								NCIDSEQ		NL	RS	
BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																		



# Replacement Sheet

MSB																LSB															
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														
WORD	00	CR ID								CD ID																					
	01	TP1 BITS 0-15																													
	02	TP1 BITS 16-31																													
	03	TP4 BITS 0-12																TP6 0-2													
	04	TP6 BITS 3-12																TP7 BITS 0-5													
	05	TP7 BITS 6-21																													
	06	OPL. ORIGINATING PORT 0-15																													
	07	OP		TPL. TERMINATING PORT 0-14																											
	08	TP		OTG. ORIGINATING TRUNK GROUP														TT													
	09	TERMINATING TRUNK GROUP (1-12)																TP3Q													
	10	TP6Q		ACTION CODE						OTC								TTC													
	11	ID1				ID2				ONACC								TNACC													
	12	CLI 1				CLI 2				CLI 3								CLI 4													
	13	CLI 5				CLI 6				CLI 7								CLI 8													
	14	CLI 9				CLI 10				CLI 11								CLI 12													
	15	CLI 13				CLI 14				CLI 15								A1													
	16	A2				A3				A4								A5													
	17	A6				A7				A8								A9													
	18	A10				A11				A12								A13													
	19	A14				A15				A16								A17													
	20	A18				A19				A20								A21													
	21	A22				A23				A24								A25													
	22	A26				A27				A28								A29													
	23	A30				A31				A32								A33													
	24	A34				A35				A36								A37													
	25	A38				A39				A40								A41													
	26	A42				A43				A44								A45													
	27	FC				TNC				KAT								TF7Q													
	28	EC, ENTRY CODE								PD				ND ID				DIVID													
	29	D0		MM		CC		IN		SC		CD		DE		DT		PP		XC		SA		NOCLI							
	30	CN1				CN2				CN3								CN4													
	31	ACIF				SS7 RELEASE CODE												NCIDSEQ				NL		RS							
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														
EOSR/EOSR FORMAT																															

FIG. 33

# Replacement Sheet

MSB																LSB	
BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
32	T & C GUEST 1								T & C GUEST 2								
33	T & C GUEST 3								T & C GUEST 4								
34	ID1				ID2				ID3				ID4				
35	ID5				ID6				ID7				ID8				
36	ID9				ID10				ID11				ID12				
37	ID13				ID14				ID15				ID16				
38	ID17				ID18				ID19				ID20				
39	ID21				ID22				ID23				ID24				
40	ID25				PTD1				PTD2				PTD3				
41	PTD4				PTD5				PTD6				PTD7				
42	PTD8				PTD9				PTD10				PTD11				
43	PTD12				PTD13				PTD14				PTD15				
44	EIR CALL TYPE								OVFAL						CB		
45	OVFCL				DTA 1				DTA 2				DTA 3				
46	DTA 4				DTA 5				DTA 6				DTA 7				
47	DTA 8				DTA 9				DTA 10				DTA11				
48	DTA 12				DTA 13				DTA 14				DTA 15				
49	OVFC						DTAC						NCID				
50	NETWORK CALL IDENTIFIER (NCID)																
51	NETWORK CALL IDENTIFIER (NCID)																
52	NETWORK CALL IDENTIFIER (NCID)																
53	NETWORK CALL IDENTIFIER (NCID)																
54	NETWORK CALL IDENTIFIER (NCID)																
55	T & C ROOM 1								T & C ROOM 2								
56	T & C ROOM 3								T & C ROOM 4								
57	T & C ROOM 5								T & C ROOM 6								
58	EAC1				EAC2				EAC3				EAC4				
59	EAC5				EAC6				EAC7				EAC8				
60	EAC9				EAC10				EAC11				EAC12				
61	OPIN												OVFCS				
62	TP5-OPERATOR RELEASE																
63	RN1				RN2				RN3				RN4				
BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	

FIG. 34

# Replacement Sheet

MSB																LSB		
	BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
WORD	00	CR ID						SYNC WORD (MINUS 2, OCTAL 7776)										
	01	CDID, CALL DISCONNECT I.D. NUMBER (0-15)																
	02	CDID, CALL DISCONNECT I.D. NUMBER (16-31)																
	03	SWID 1						SWID 2						SWID 3				
	04	ST-SWITCH TYPE								EQ-EVENT QUALIFIER								
	05	SERIT-SER EVENT TIME (0-15)																
	06	SERIT-SER EVENT TIME (16-31)																
	07							FCDID-FIRST RECORD CDID (12 LSAs)										
	08							LCDID-LAST RECORD CDID (12 LSAs)										
	09							NCDID-NEXT RECORD CDID (12 LSAs)										
	10	NBSN-NEMAS BLOCK SEQUENCE NUMBER																
	11	PT-PREVIOUS TIME (0-15)																
	12	PT-PREVIOUS TIME (16-31)																
	13	SI	TIME OFFSET															
	14																	
	15																	
	16	SOFTWARE LOAD ID1								SOFTWARE LOAD ID2								
	17	SOFTWARE LOAD ID3								SOFTWARE LOAD ID4								
	18	SOFTWARE LOAD ID5								SOFTWARE LOAD ID6								
	19	LAST PATCHS/PR RLS1								LAST PATCHS/PR RLS2								
	20	QCDR						QSCDR										
	21	QPMR						QSPMR										
	22	QOSR						QSOSR										
	23	QPOSR						QSPOSR										
	24	QSER						CNP										
	25	CDR THROTTLE START TIME (0-15)																
	26	CDR THROTTLE START TIME (16-31)																
	27	CDR THROTTLE STOP TIME (0-15)																
	28	CDR THROTTLE STOP TIME (16-31)																
	29											FORMAT VER.						
	30	THROTTLE COUNT (0-15)																
	31	THROTTLE COUNT (16-31)																
	BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	

FIG. 35

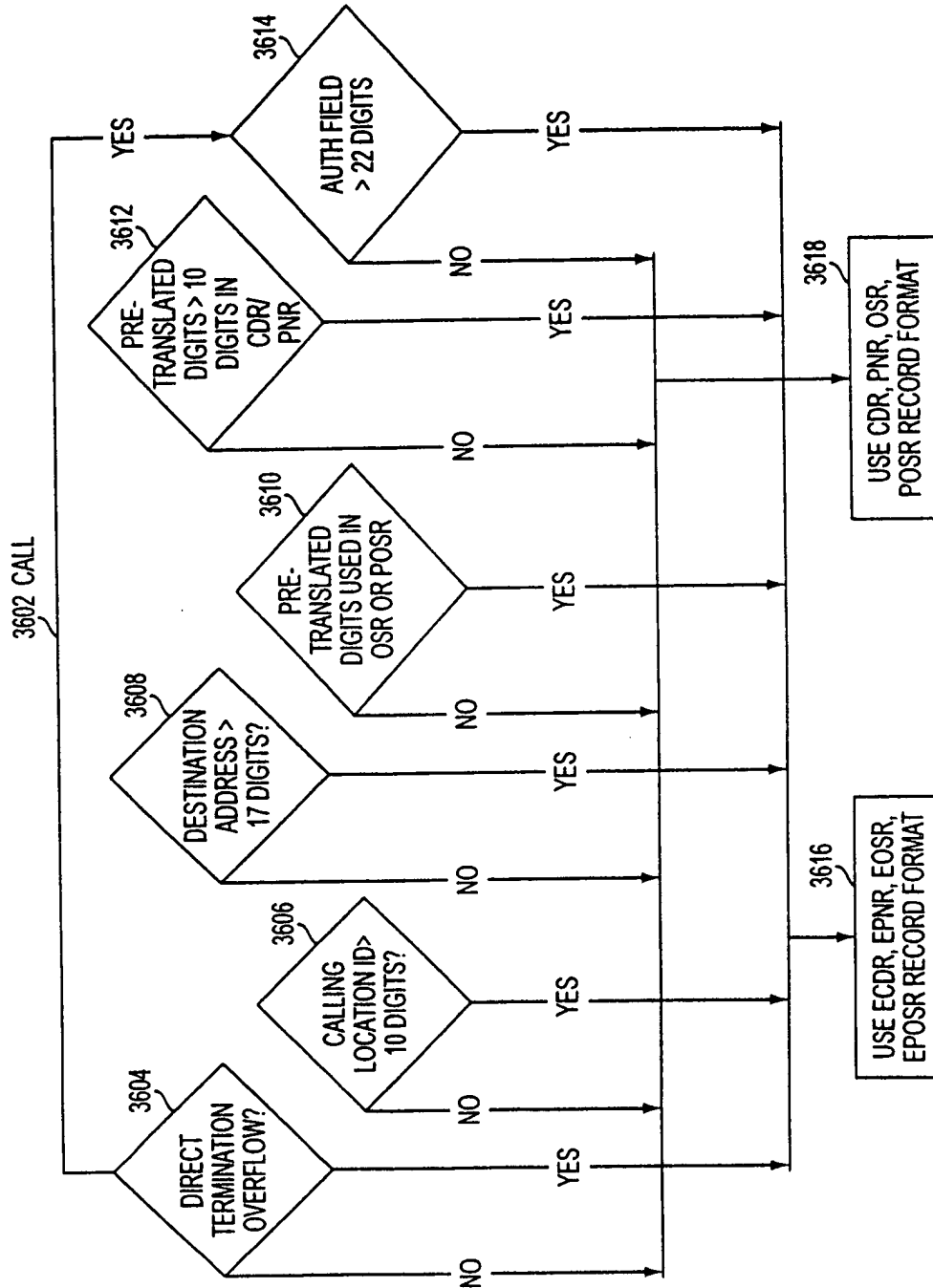


FIG. 36

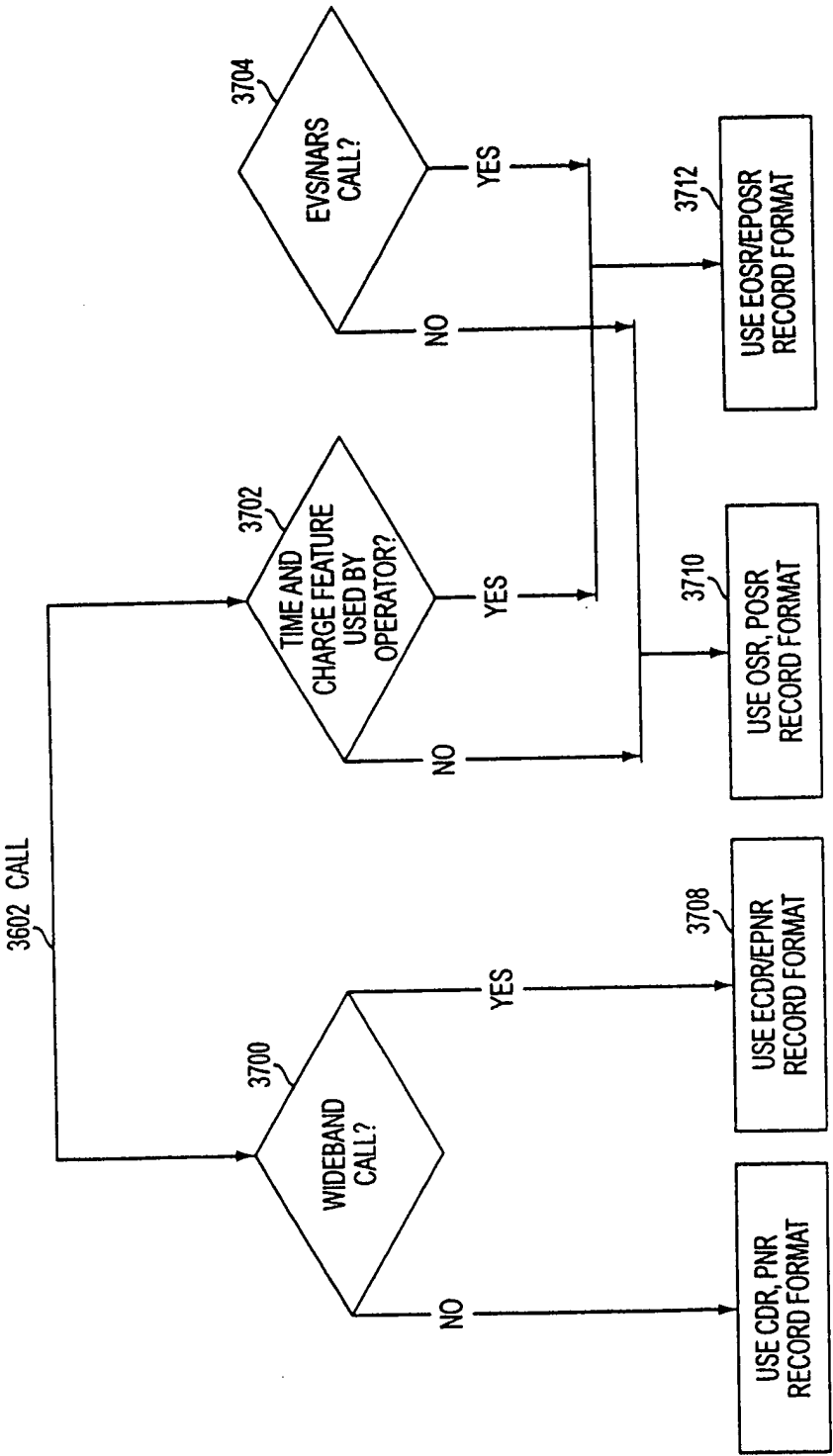


FIG. 37

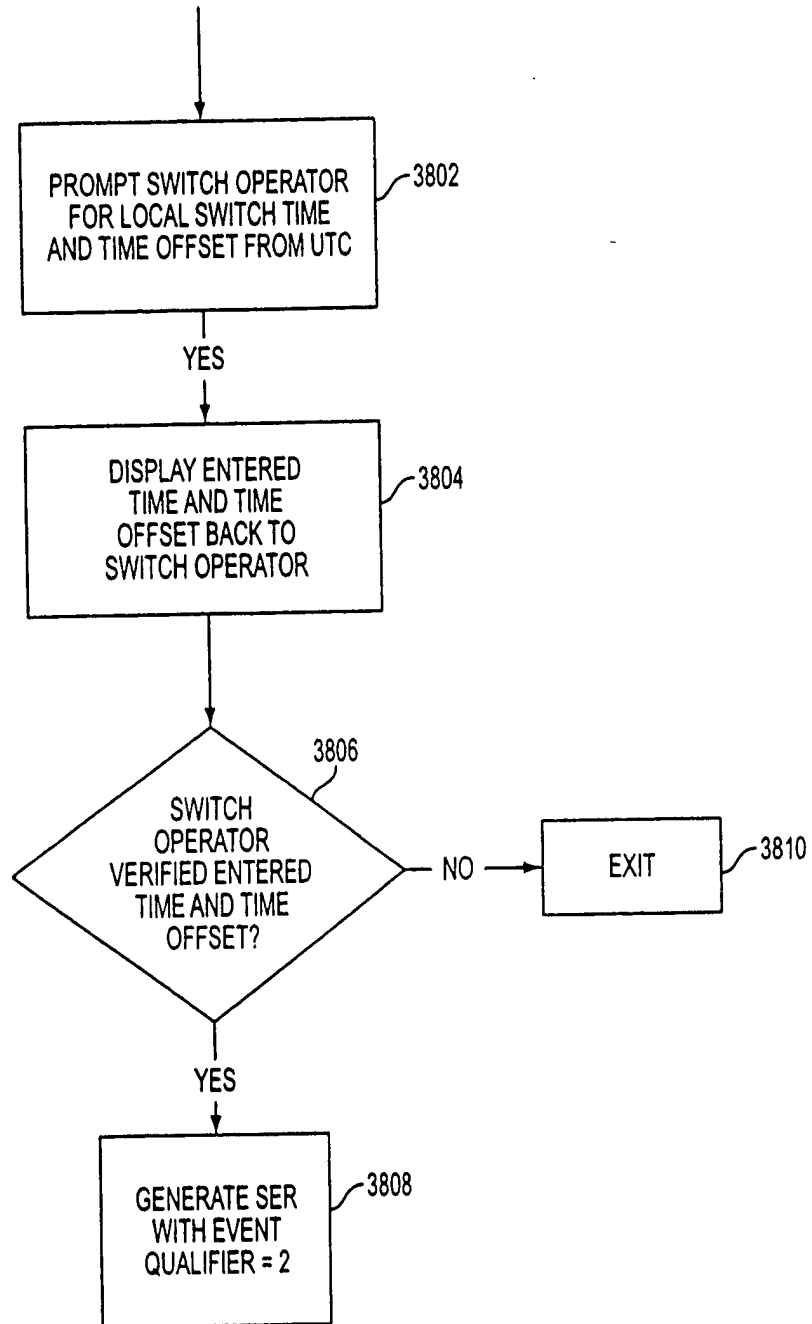


FIG. 38

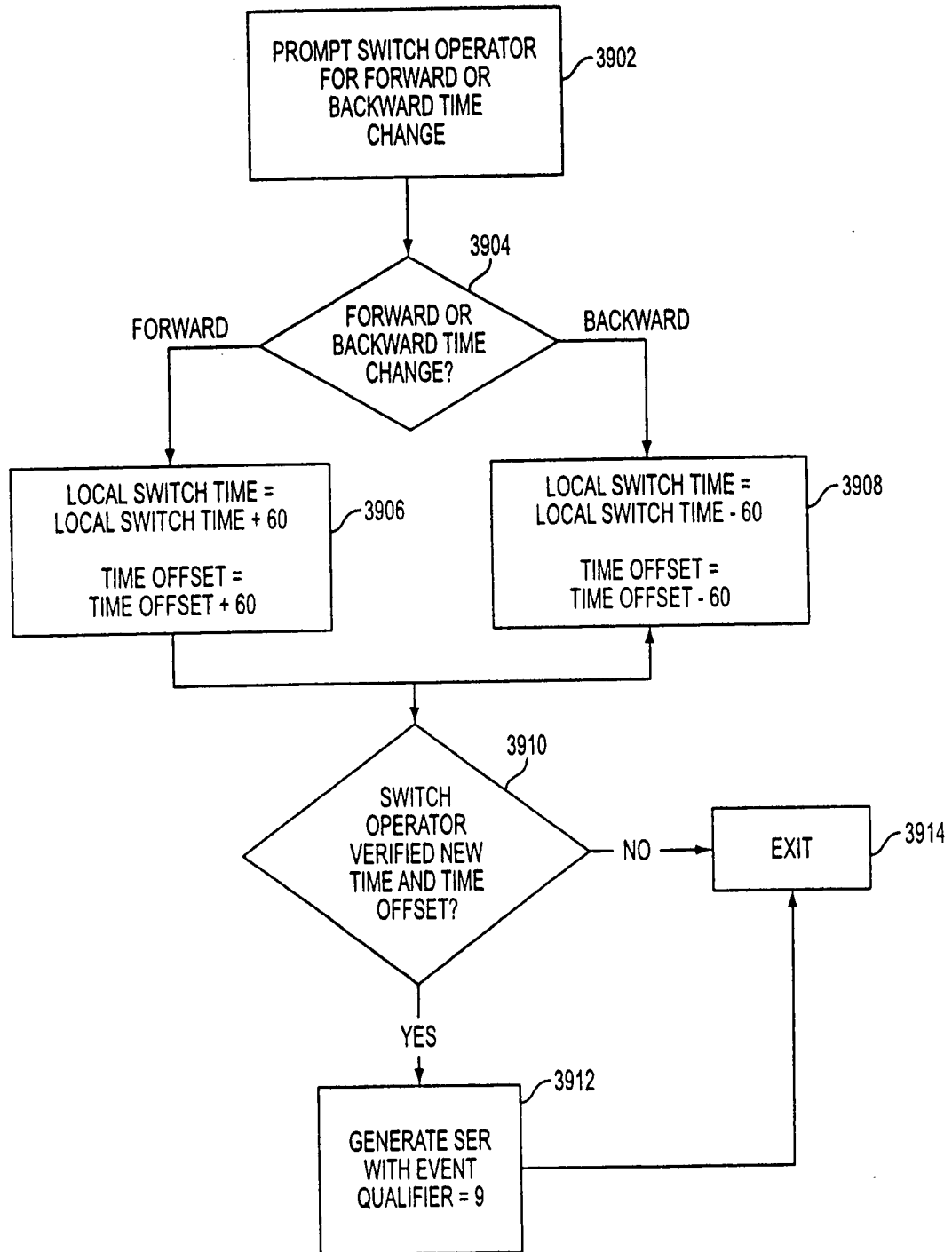


FIG. 39

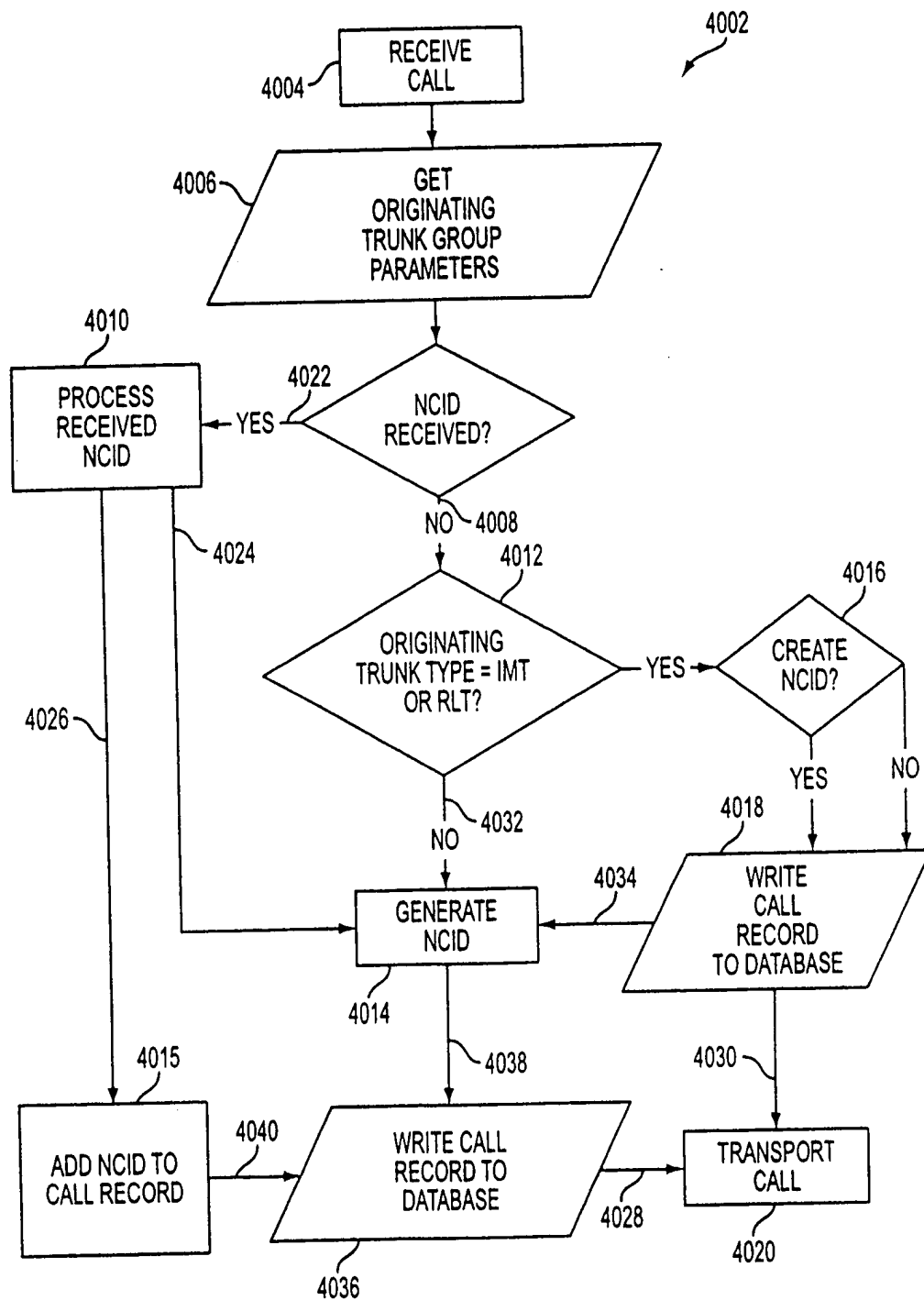


FIG. 40



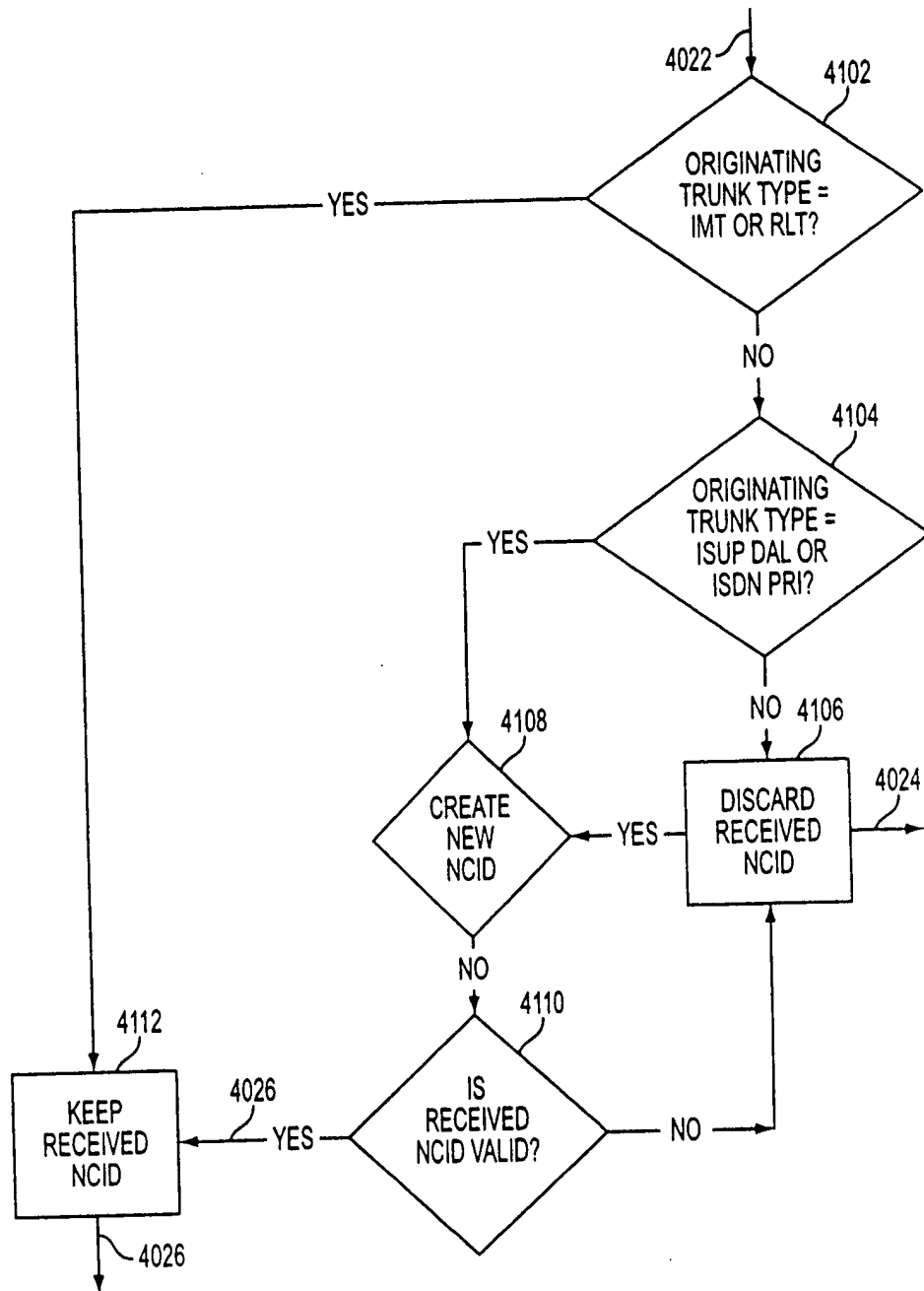


FIG. 41

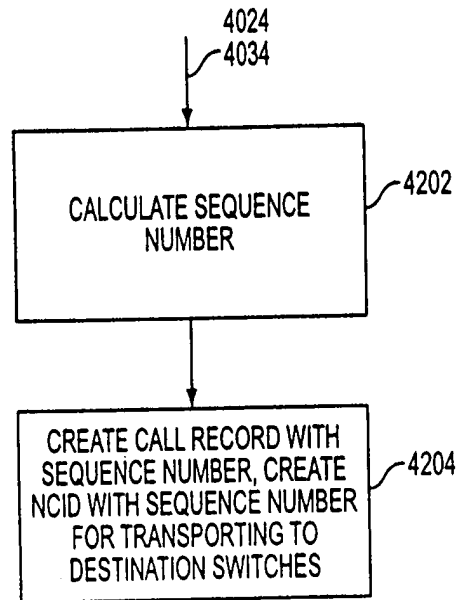


FIG. 42

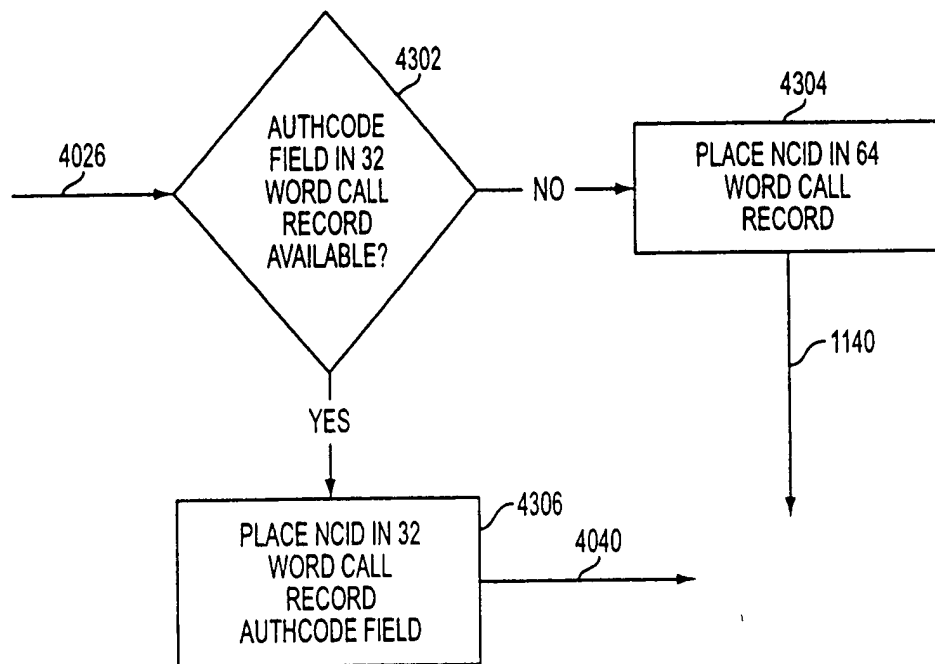


FIG. 43

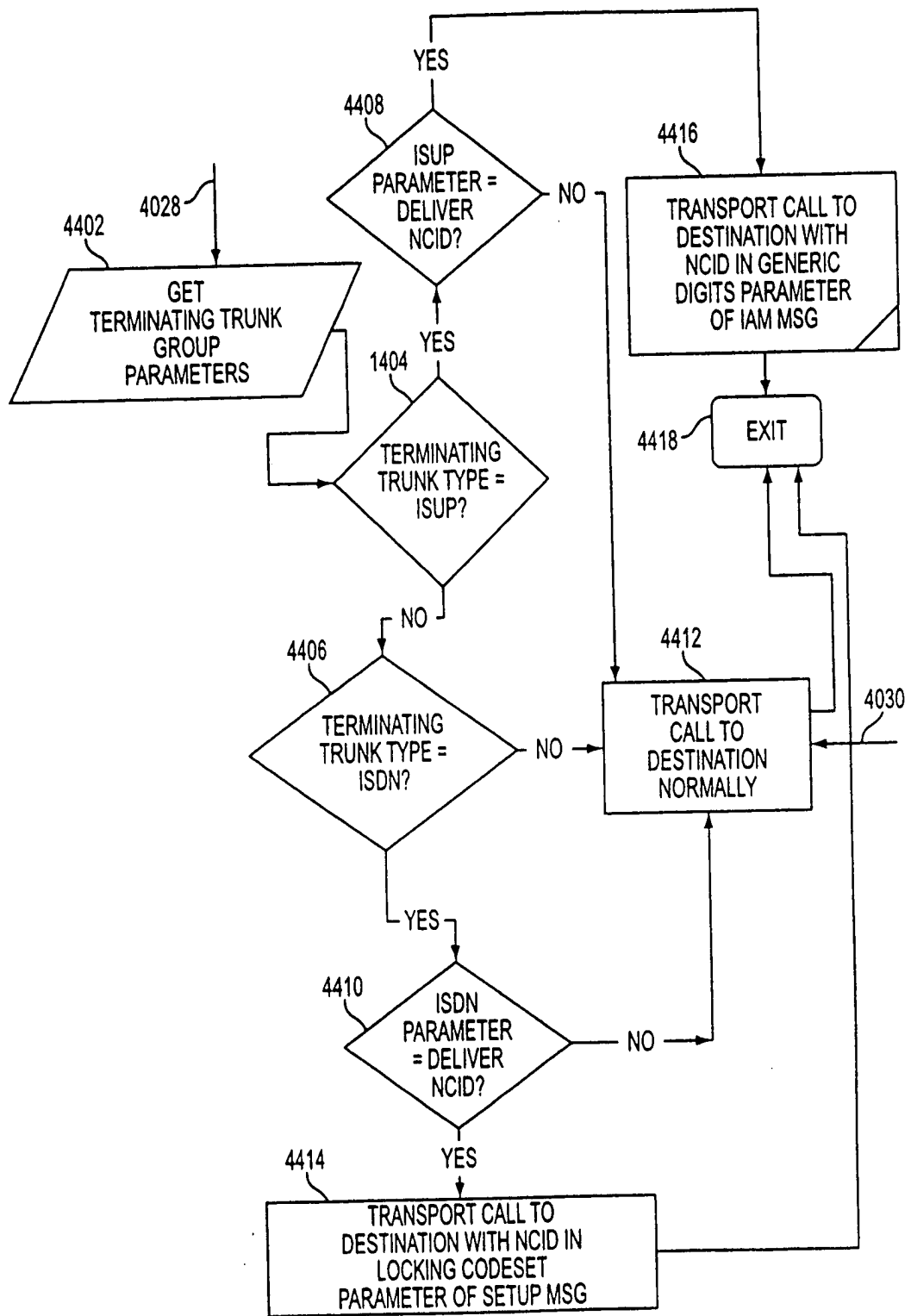


FIG. 44

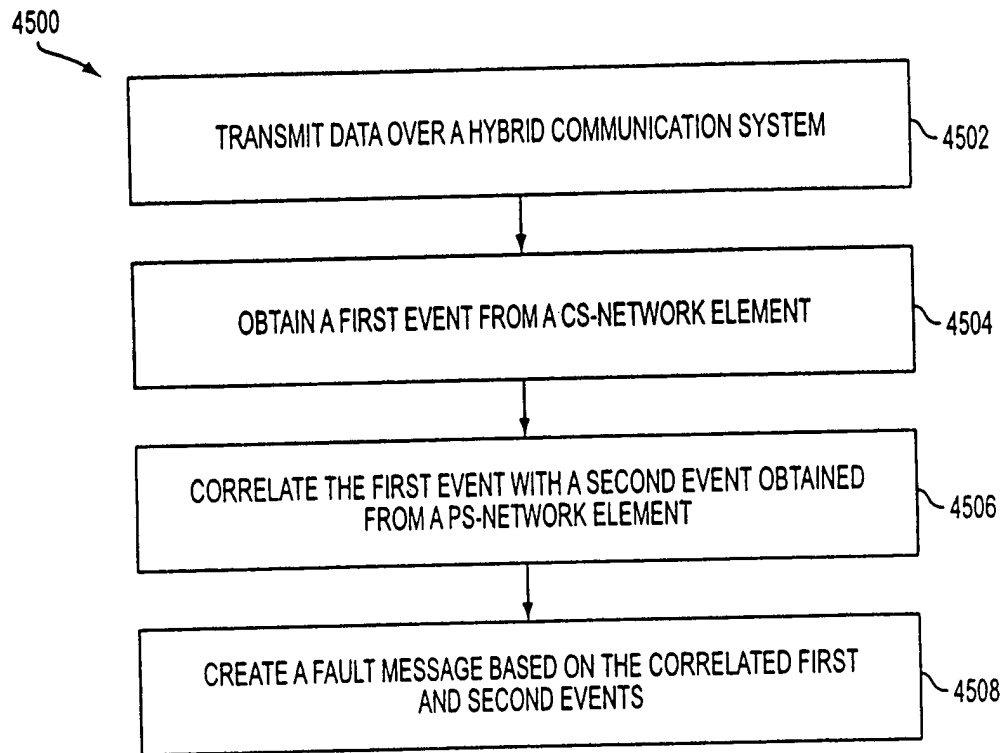


FIG. 45

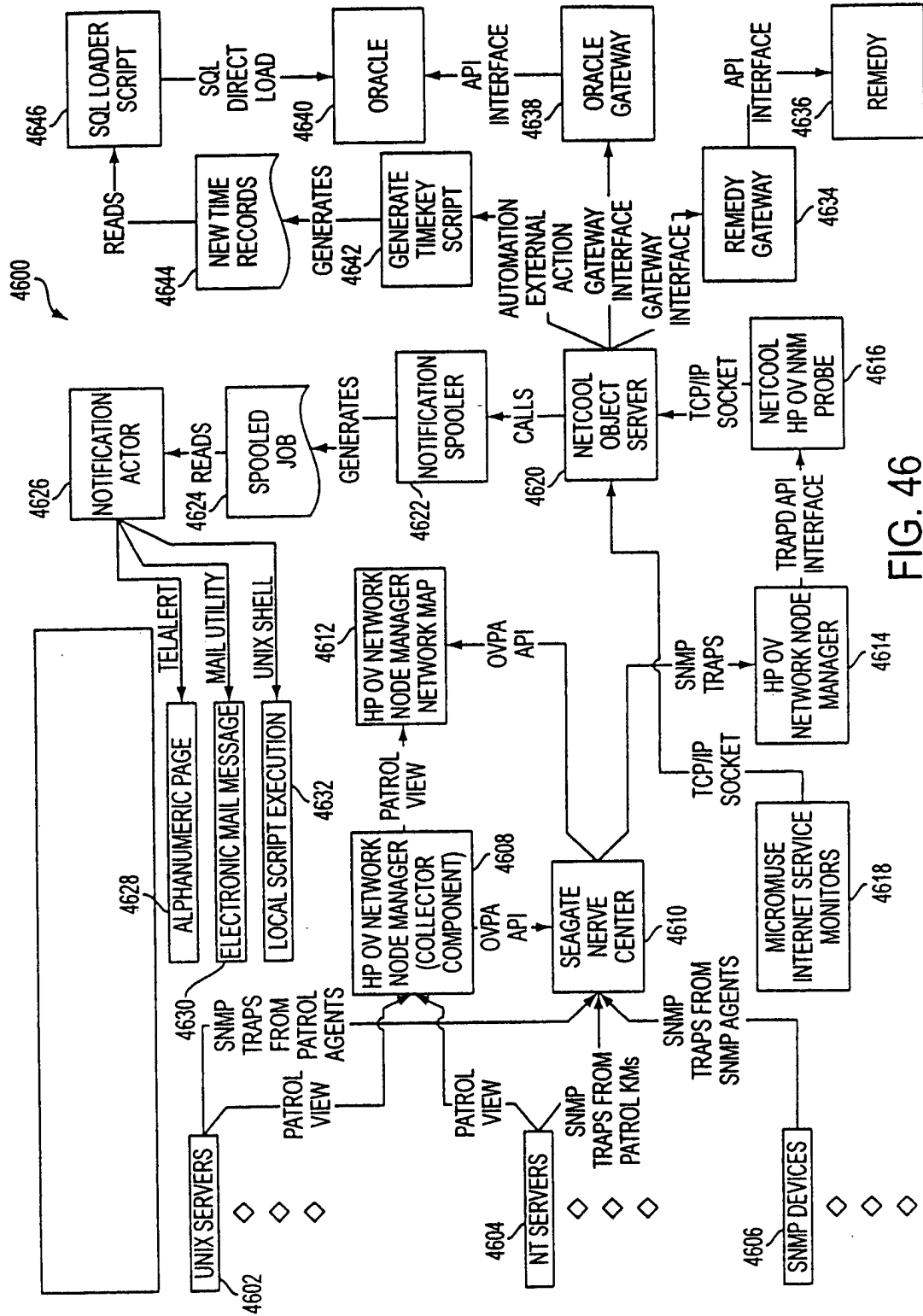


FIG. 46

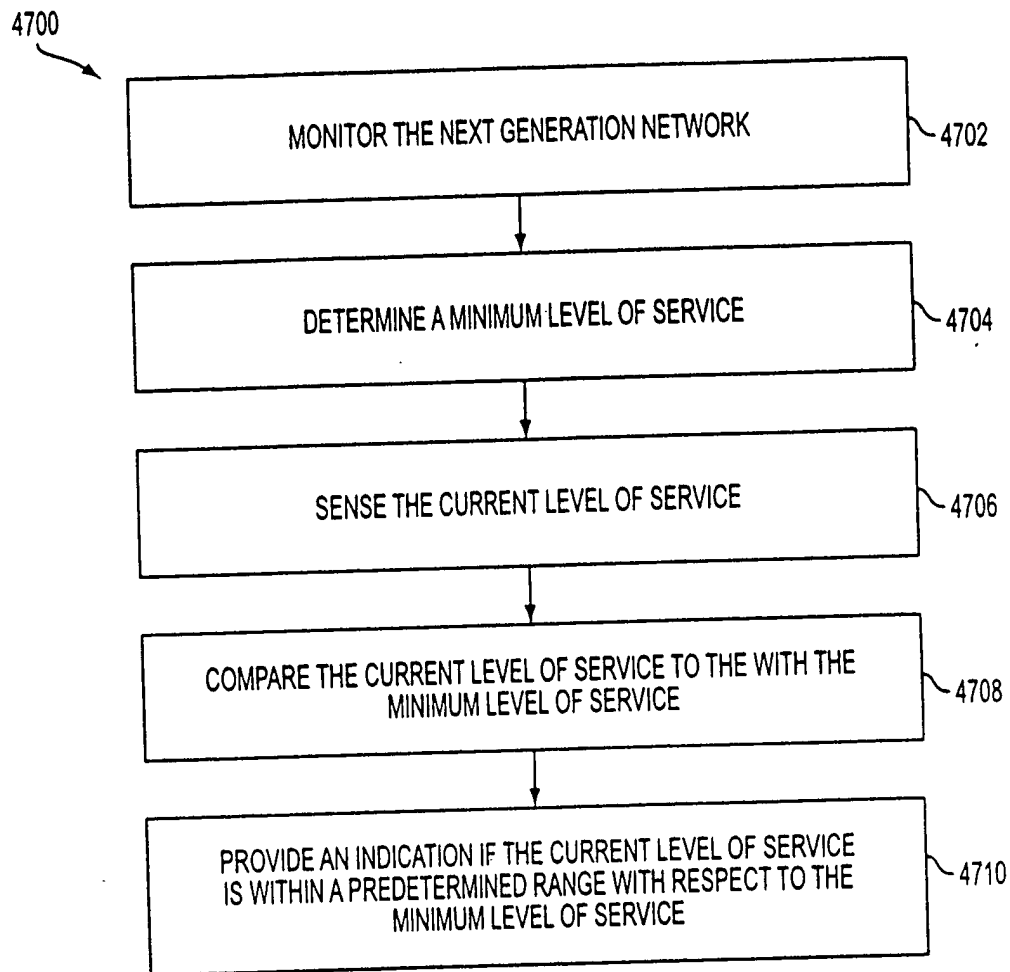


FIG. 47

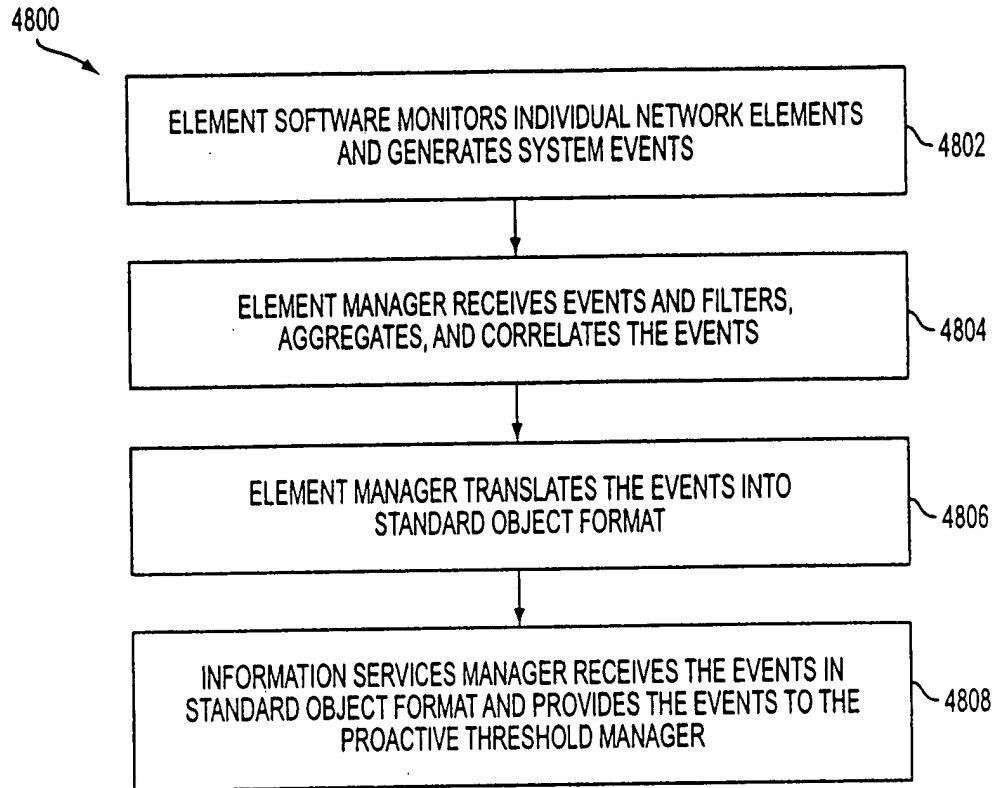


FIG. 48



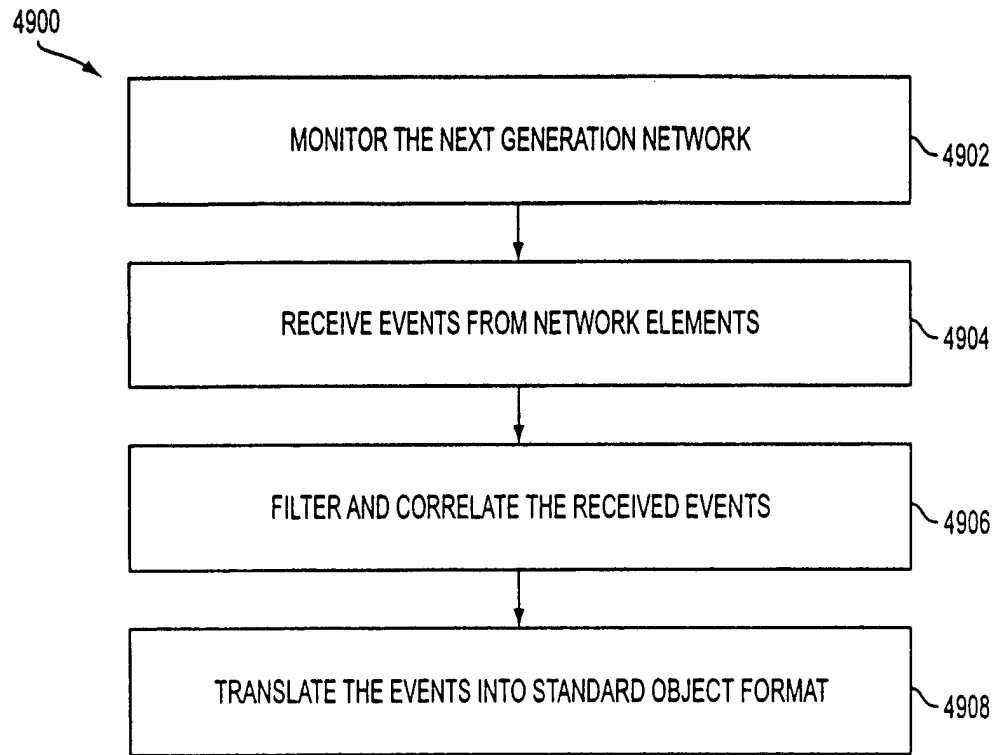


FIG. 49

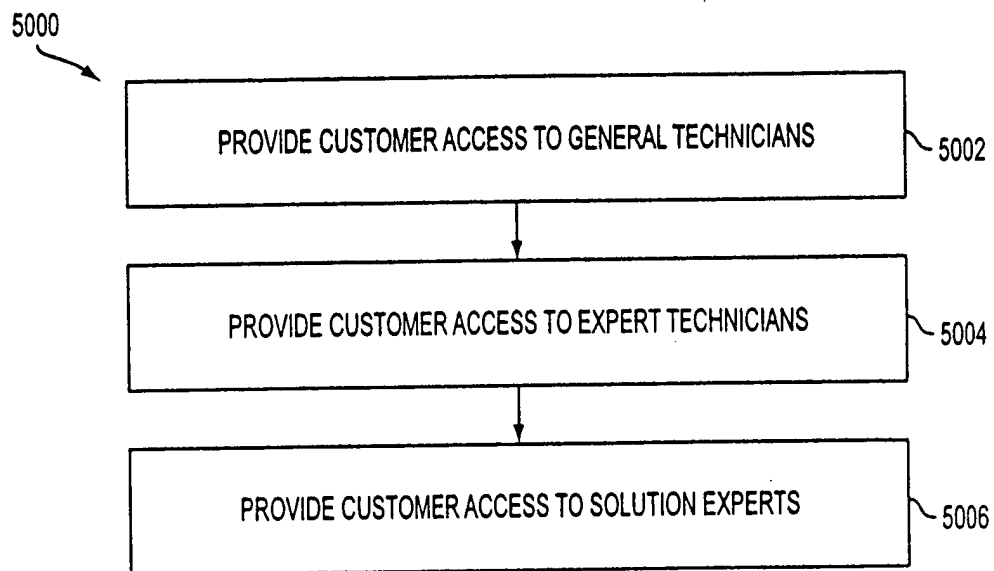


FIG. 50

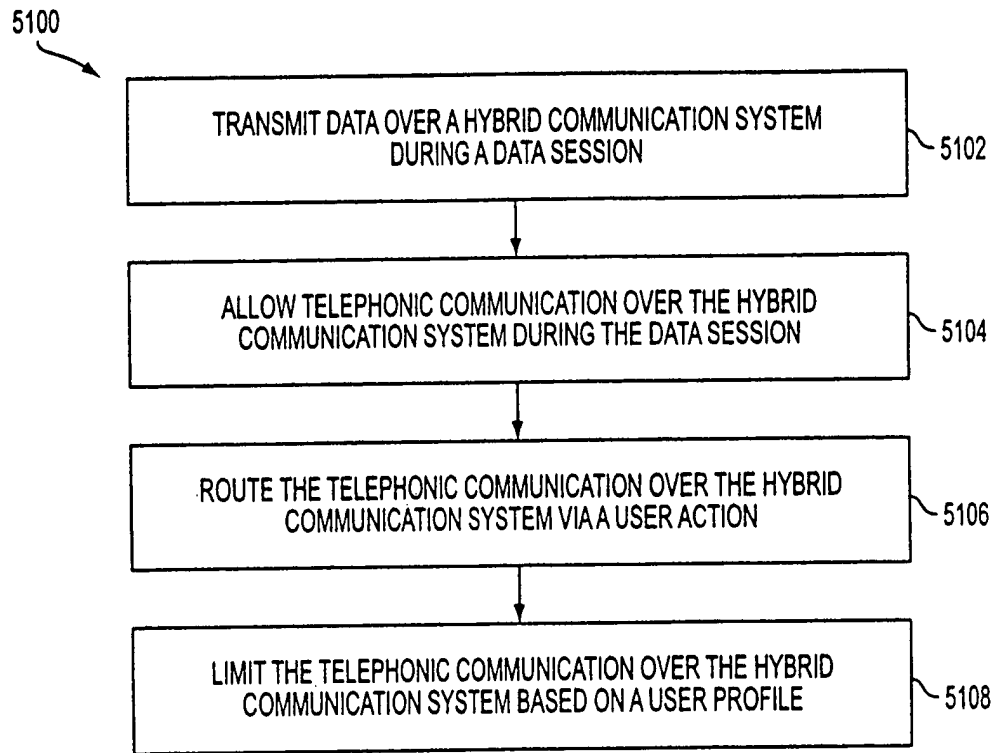


FIG. 51

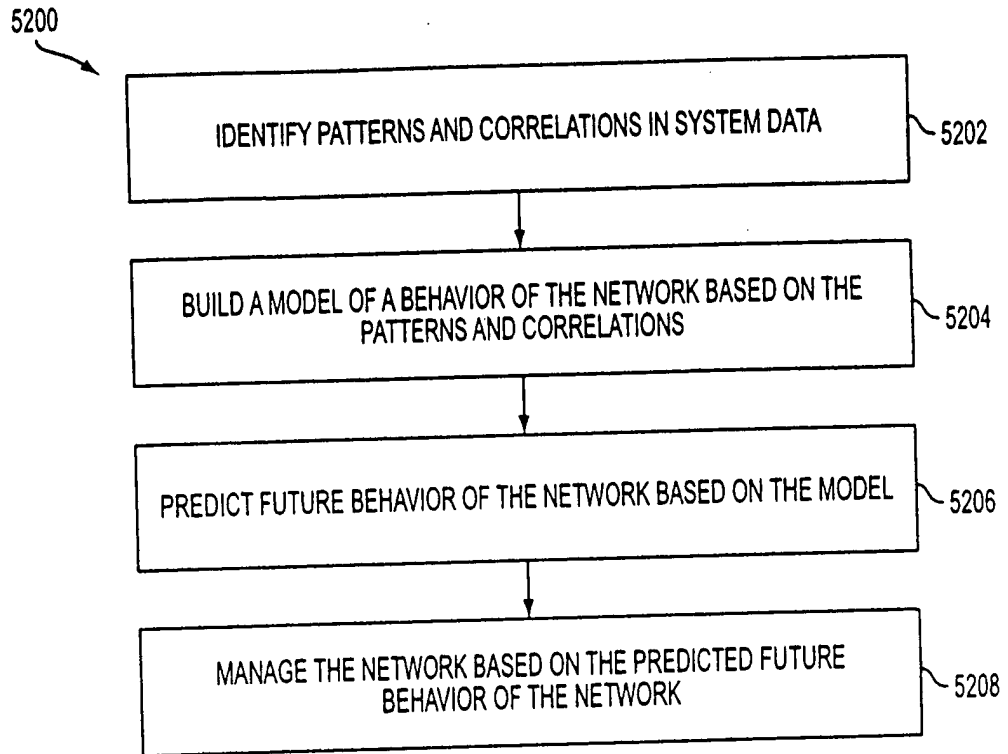


FIG. 52

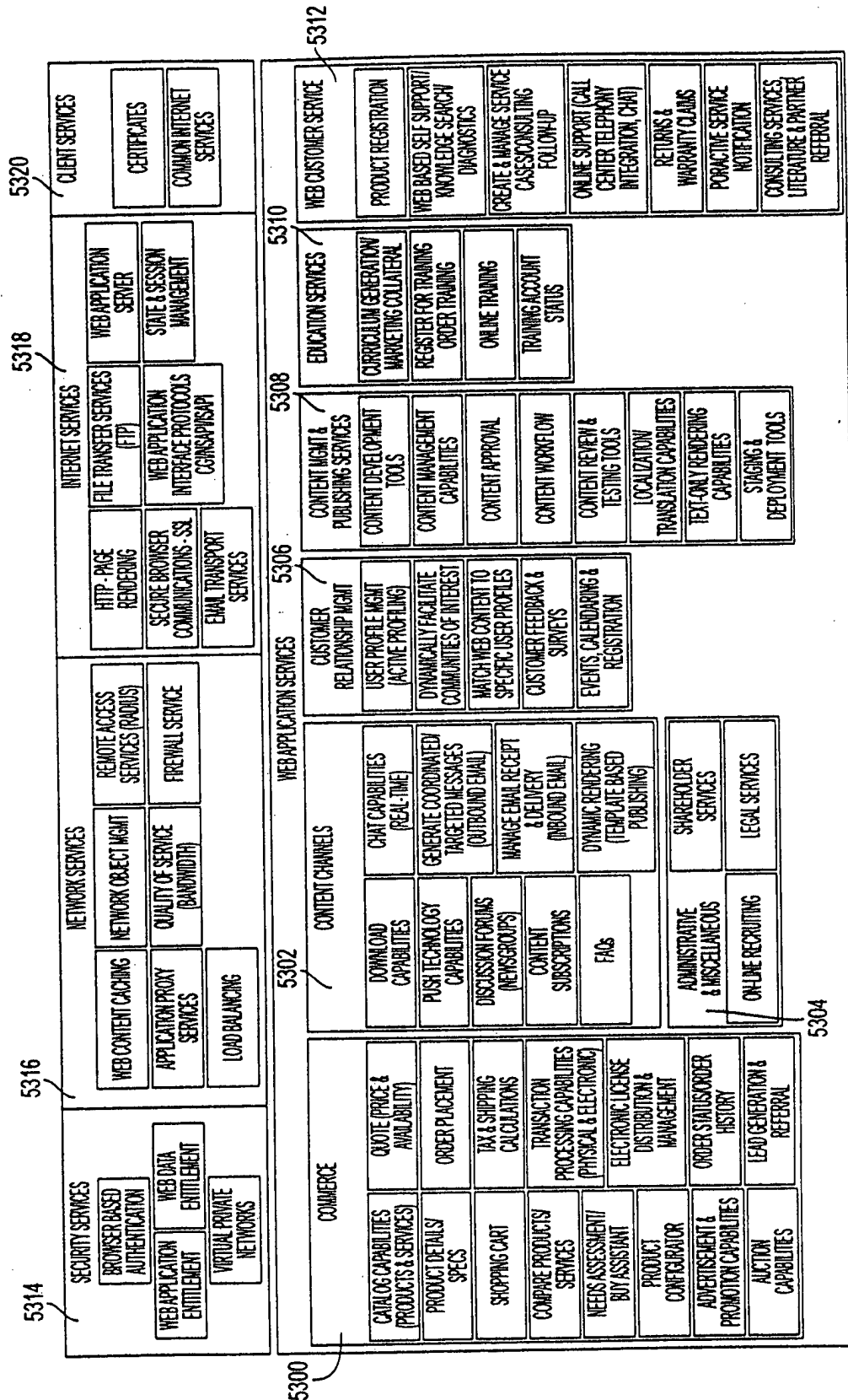


FIG. 53A

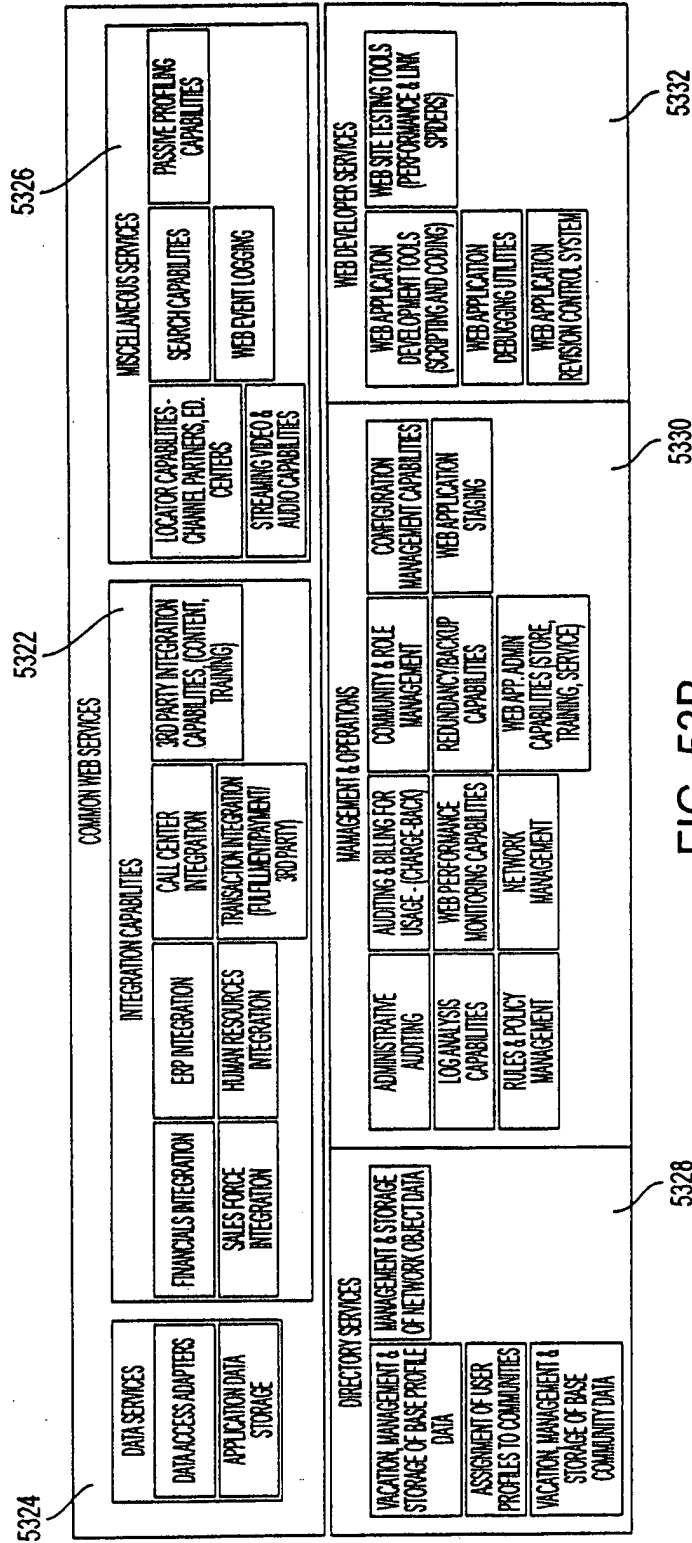


FIG. 53B

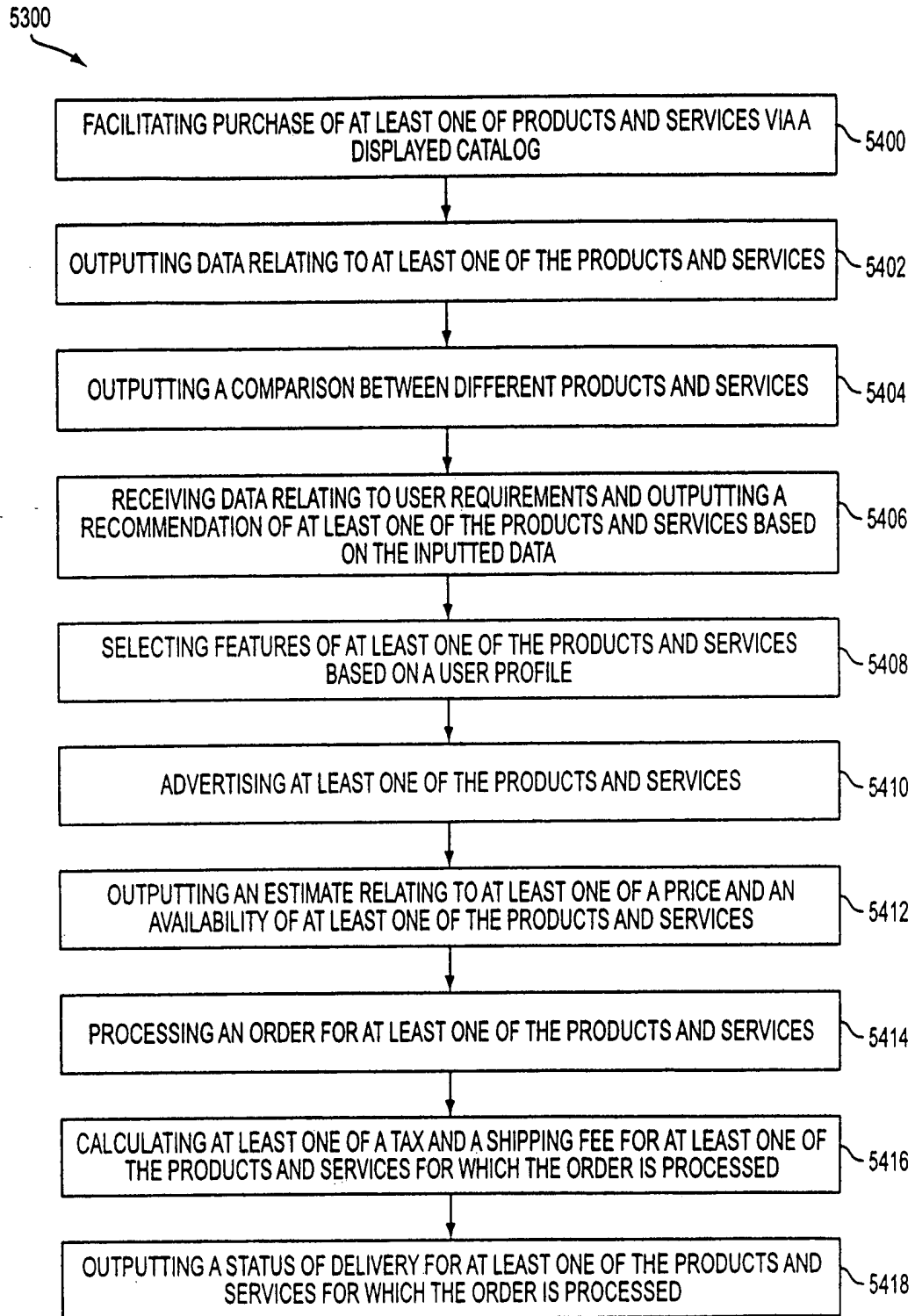


FIG. 54

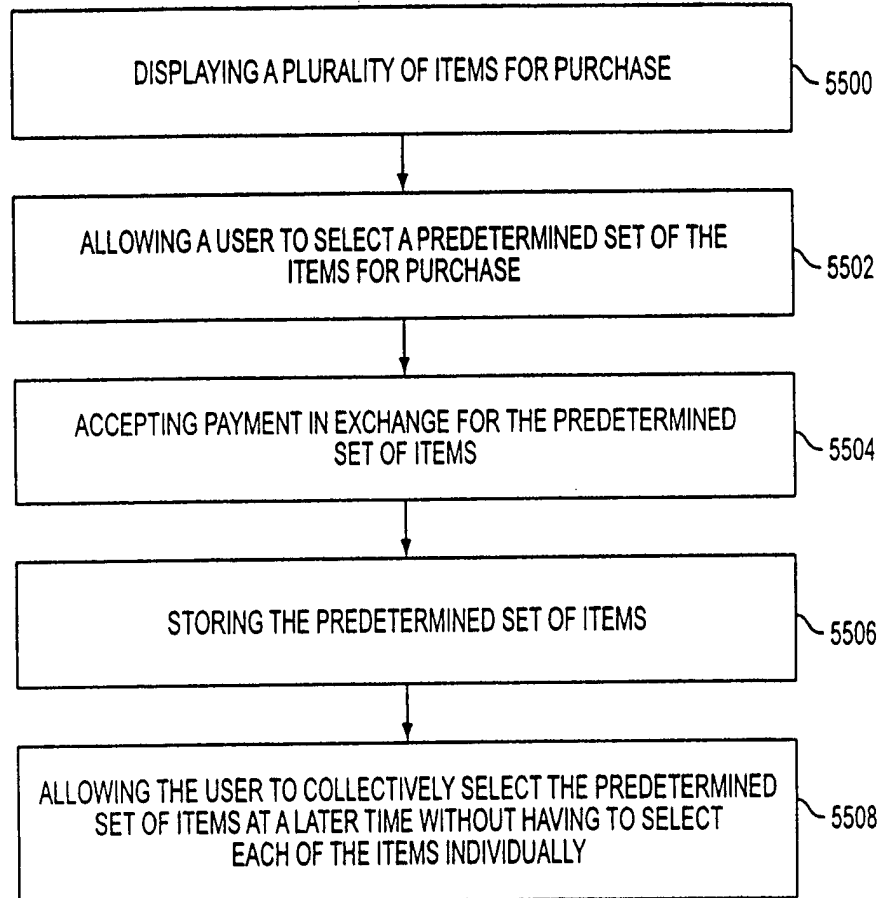


FIG. 55



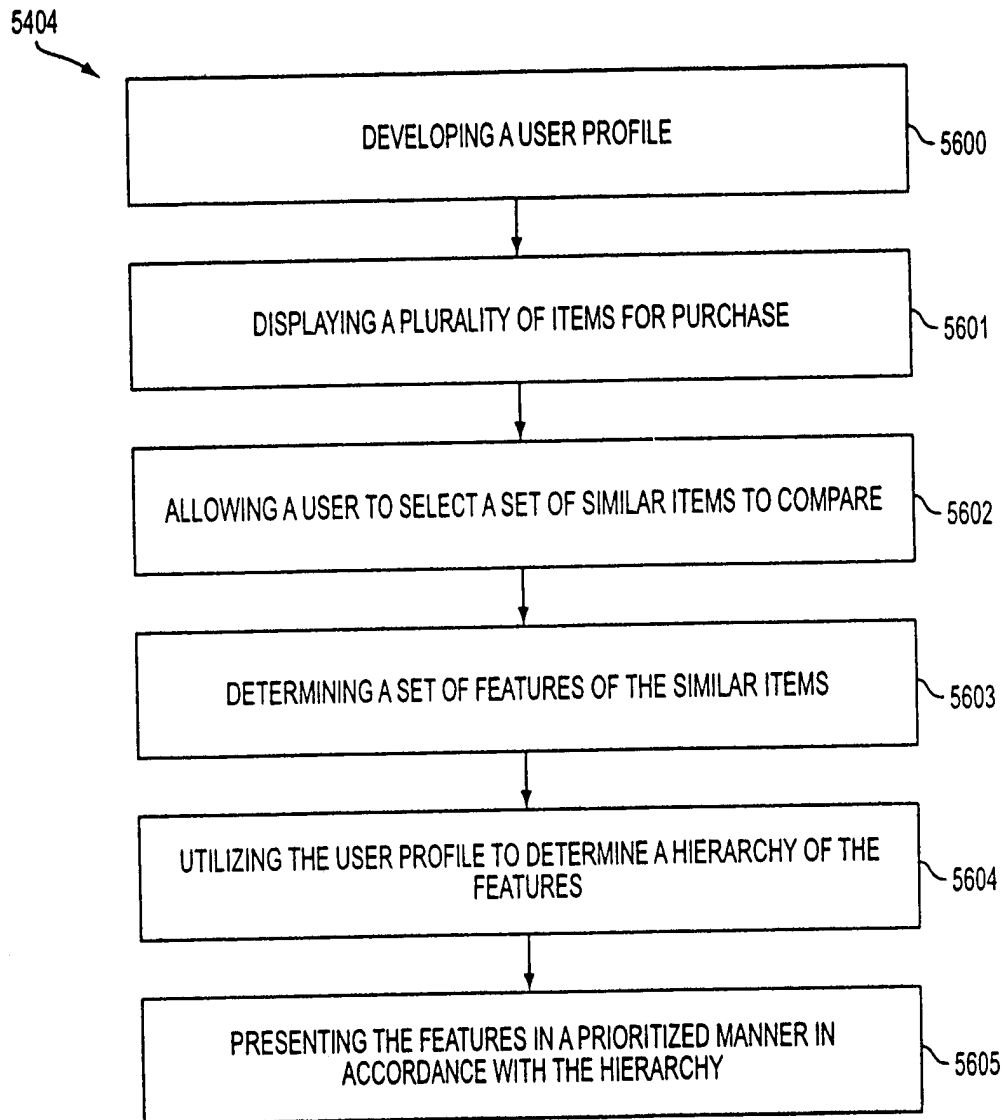


FIG. 56

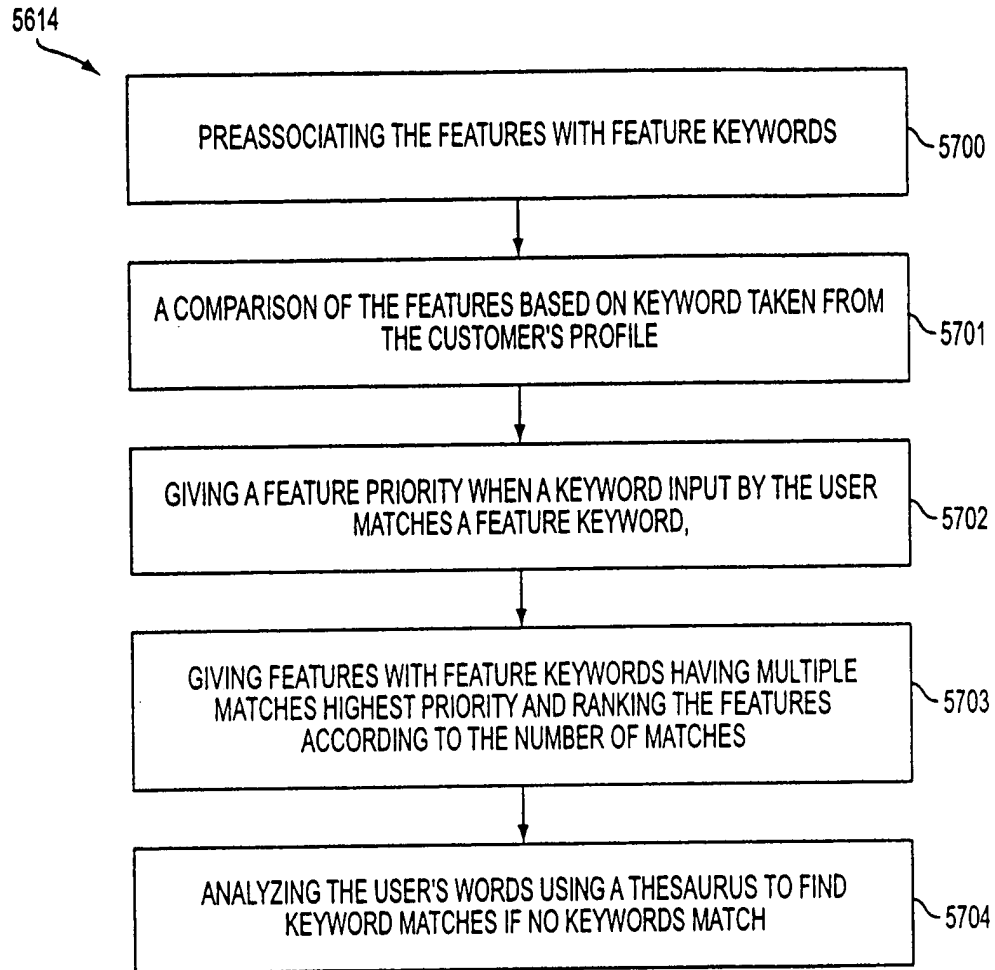


FIG. 57

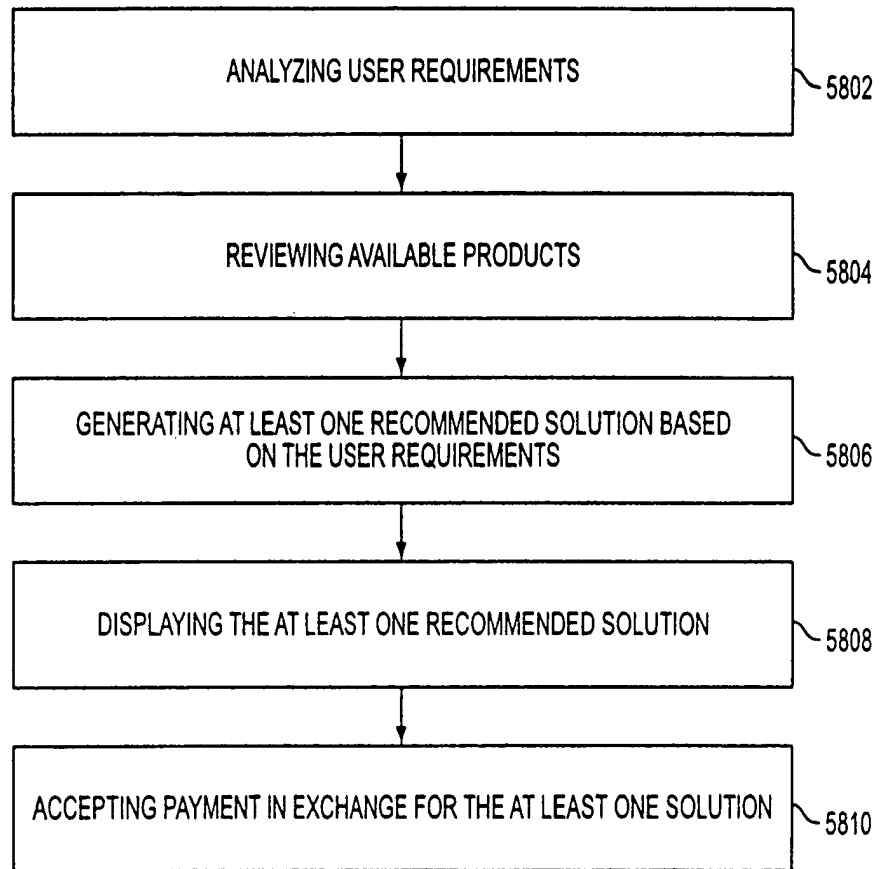


FIG. 58

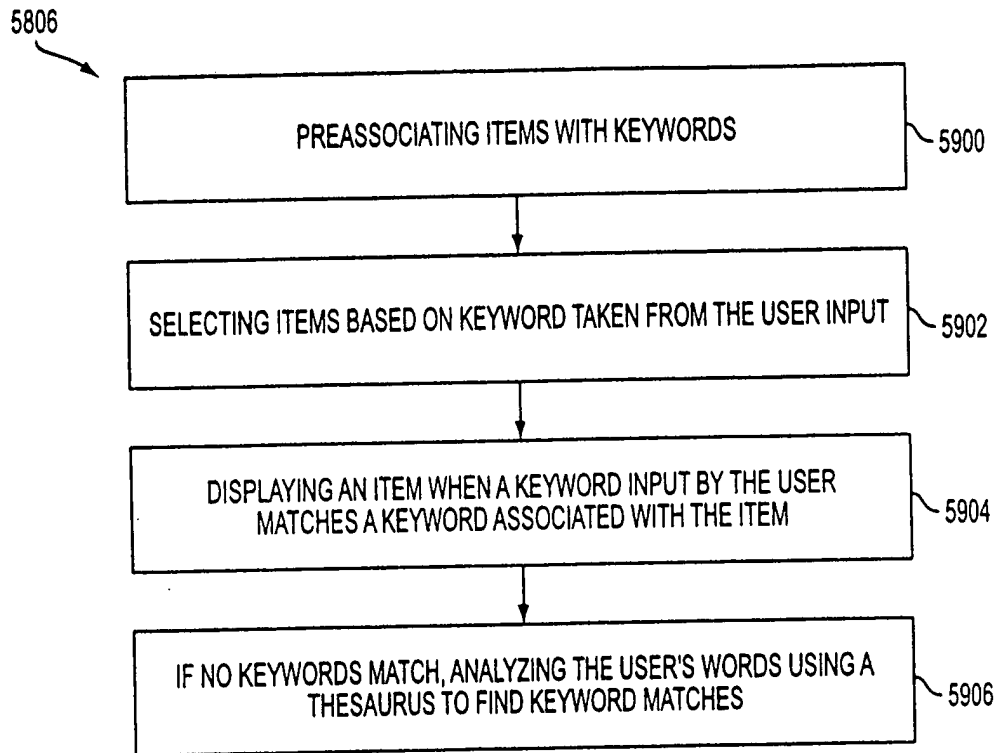


FIG. 59

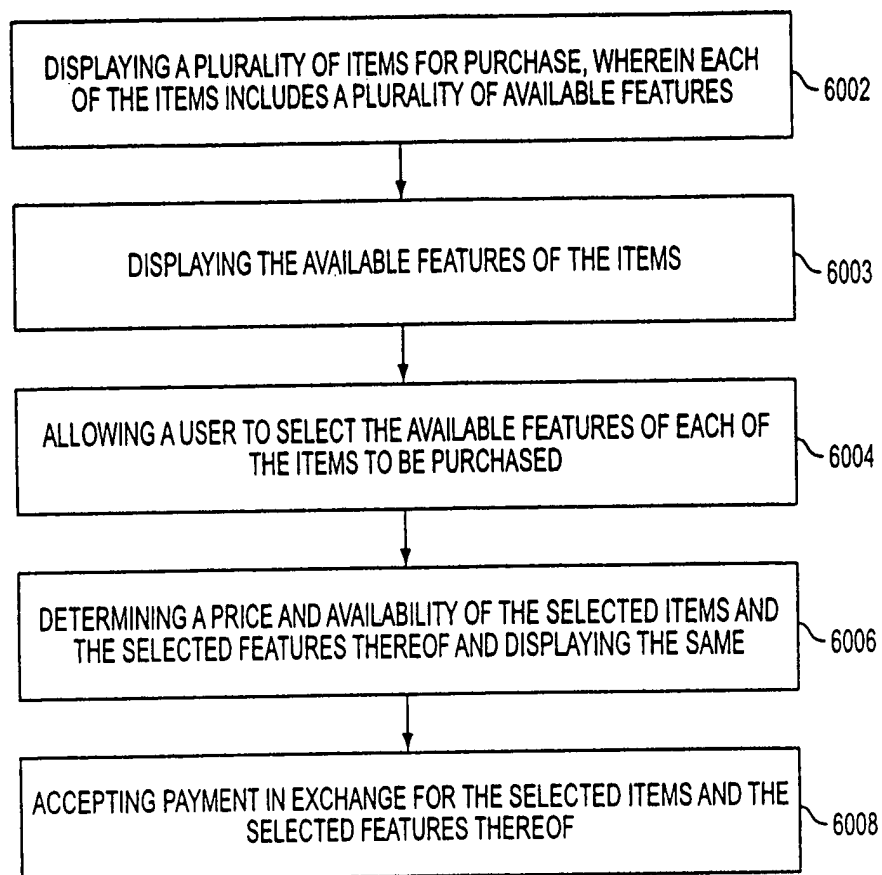


FIG. 60

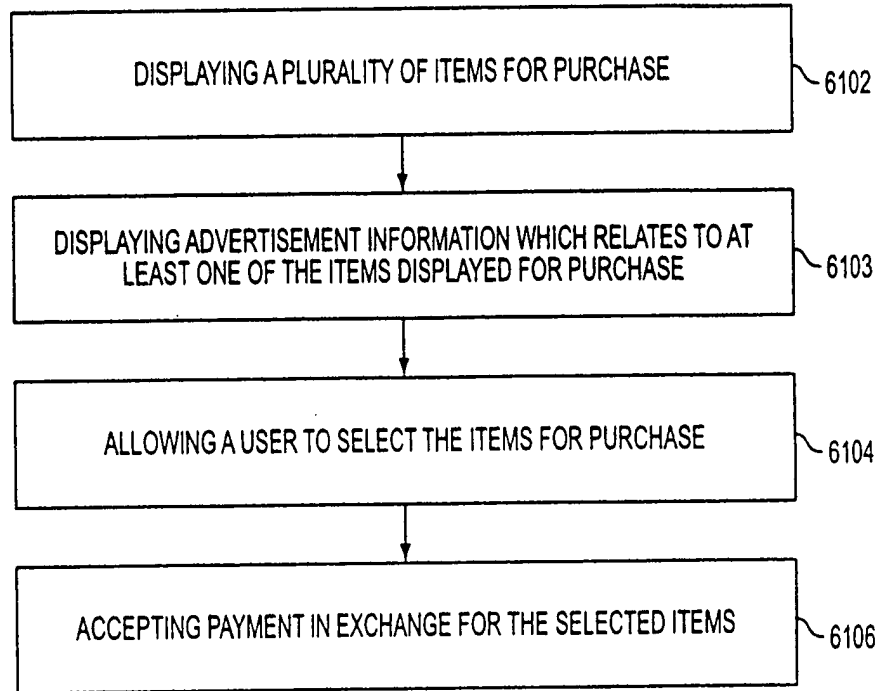


FIG. 61

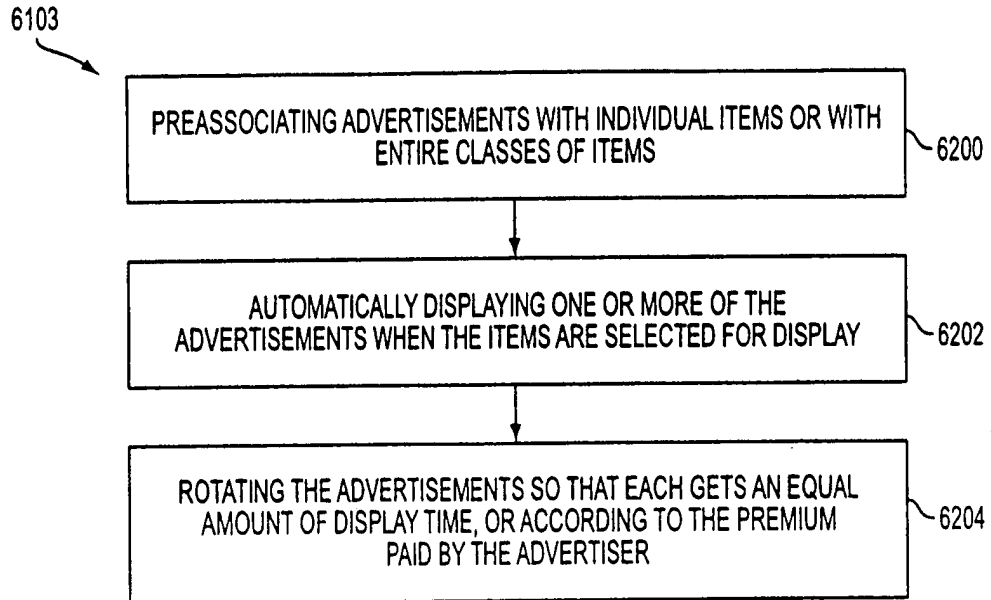


FIG. 62

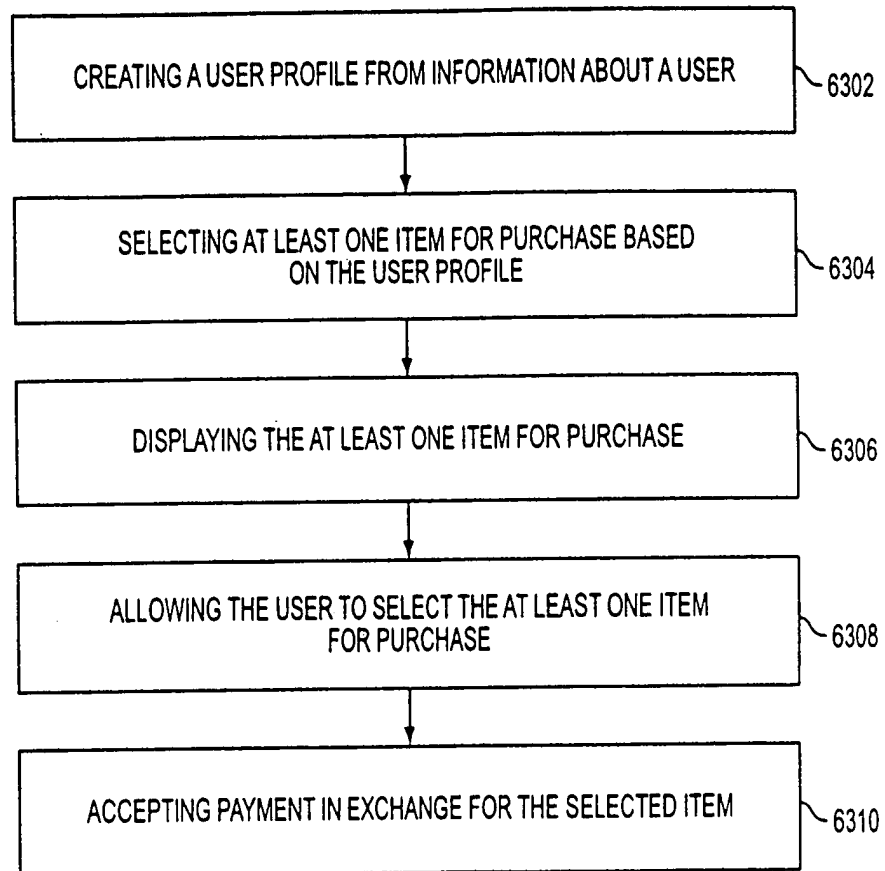


FIG. 63



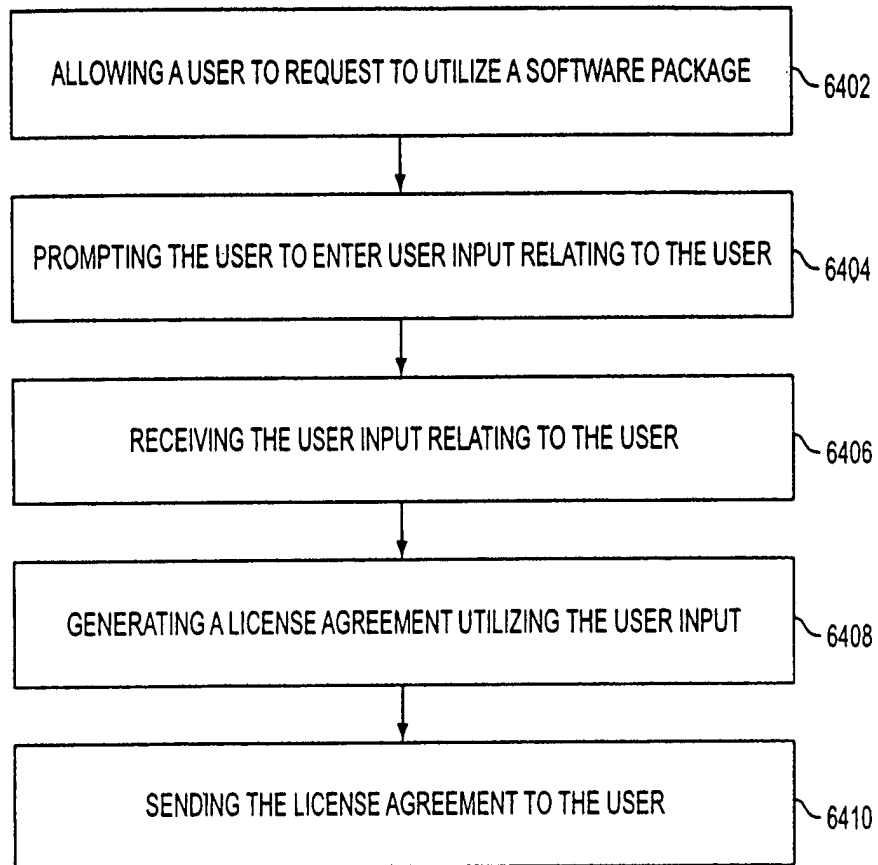


FIG. 64

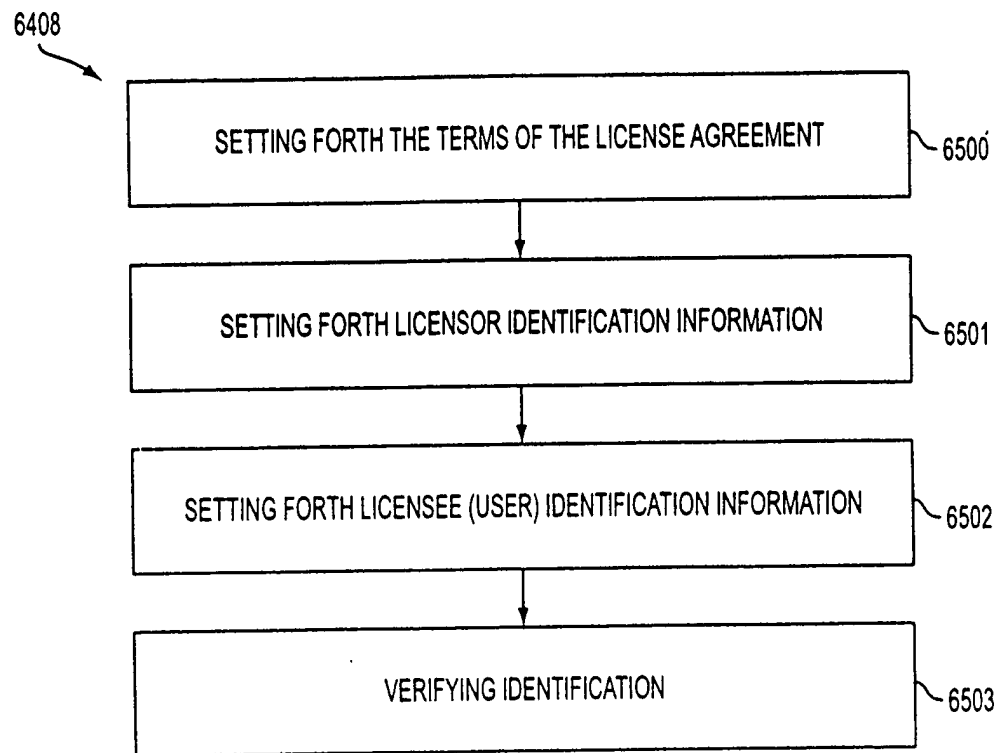


FIG. 65

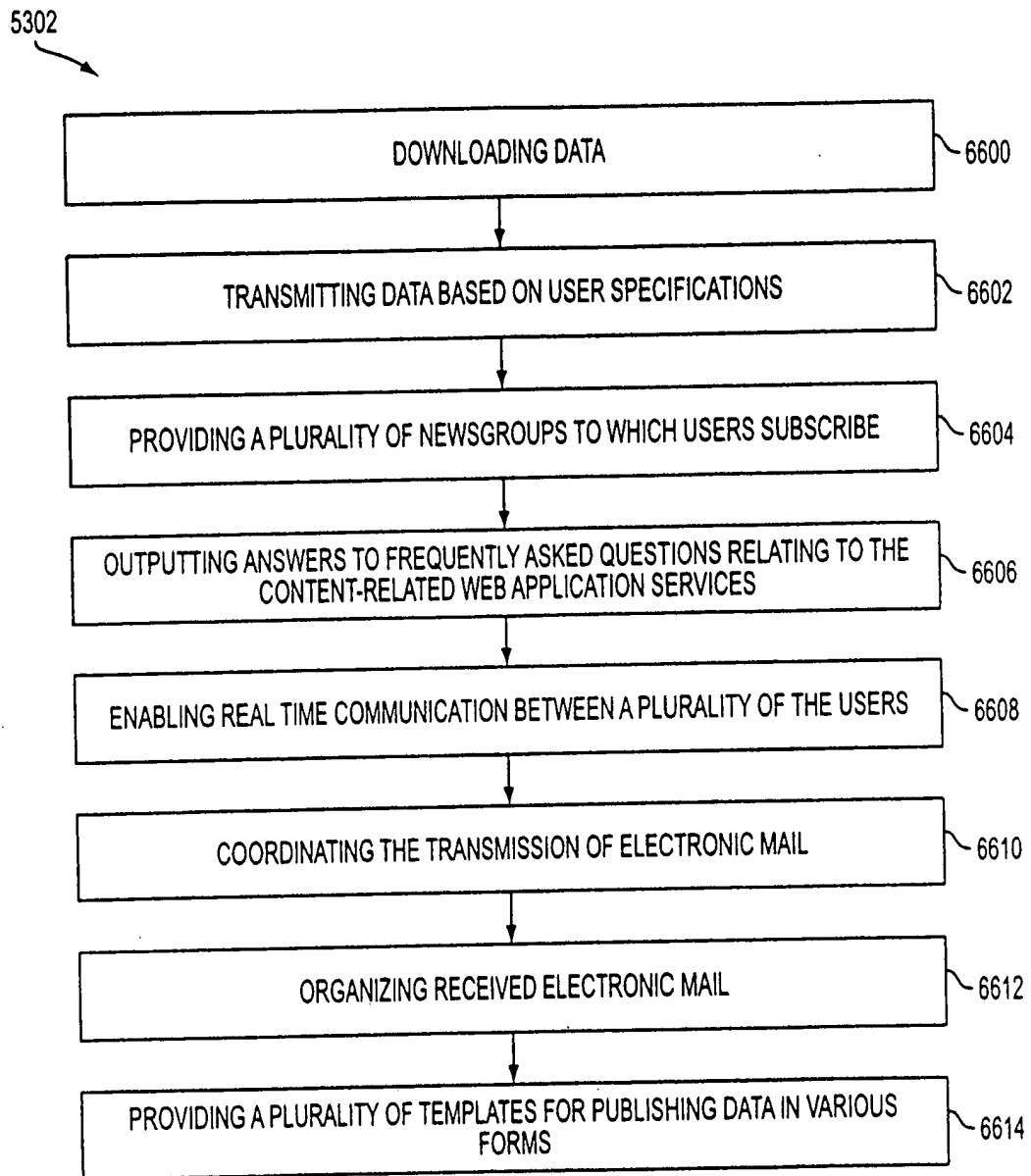


FIG. 66

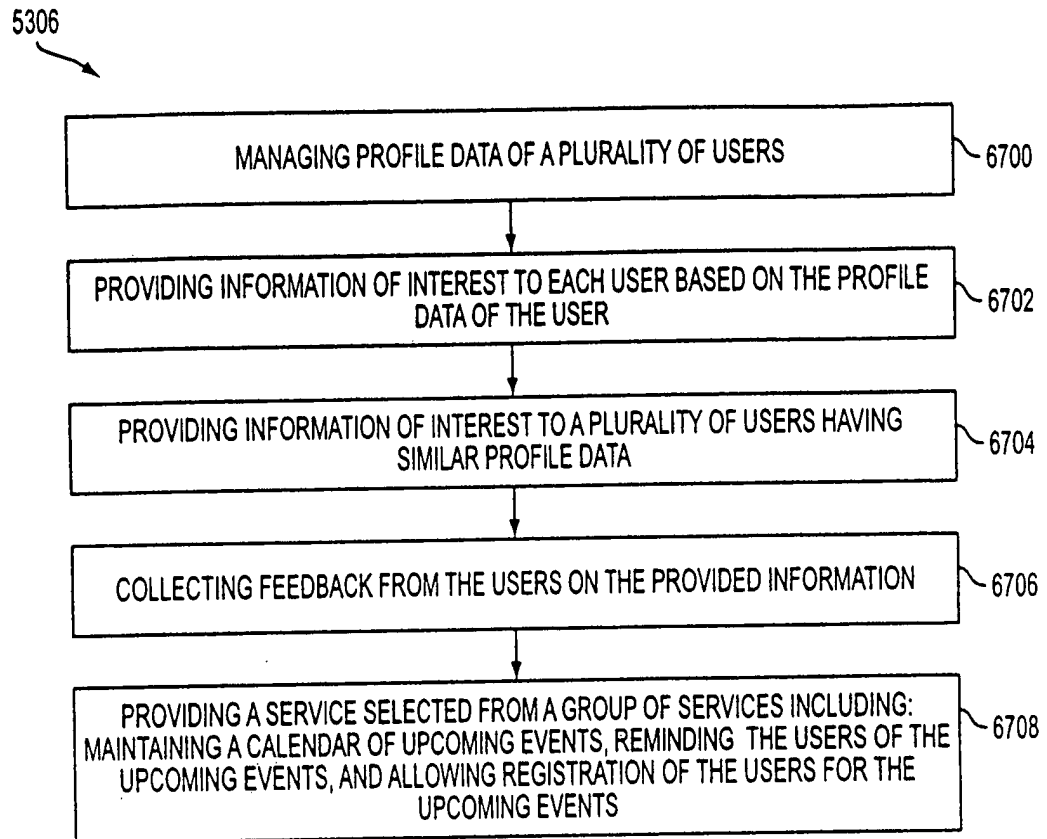


FIG. 67

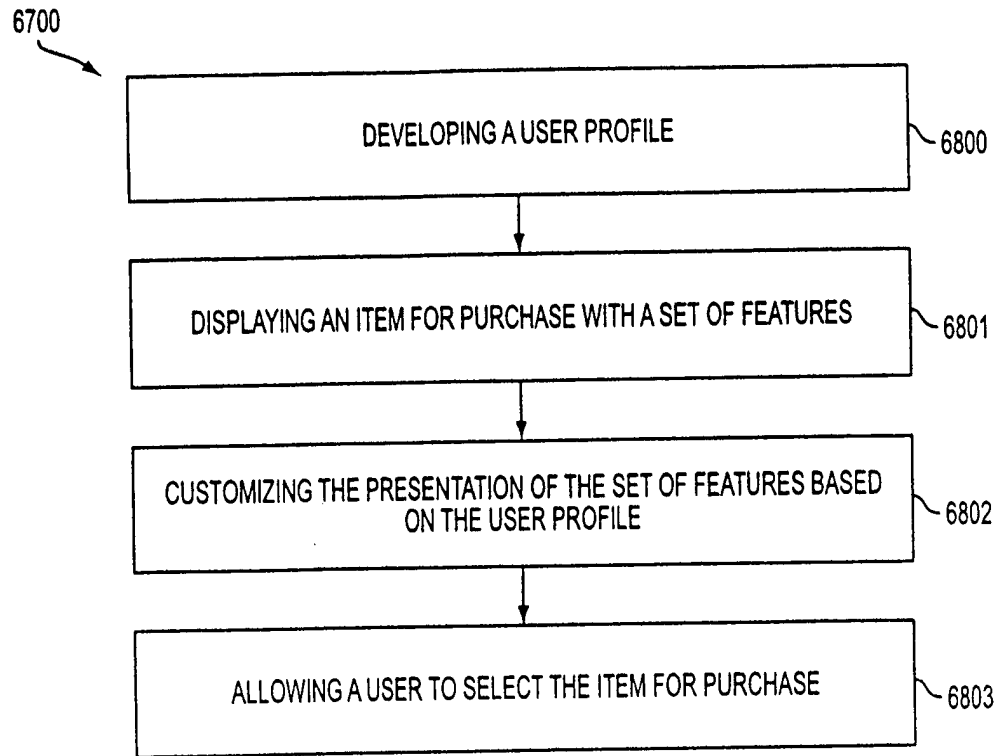


FIG. 68

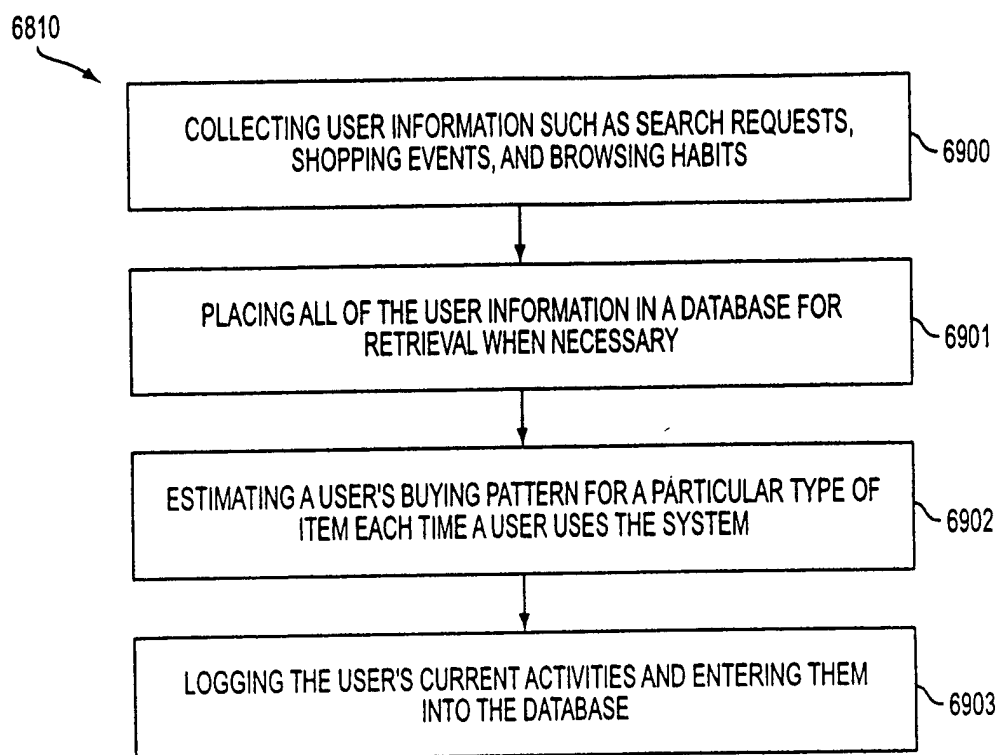


FIG. 69

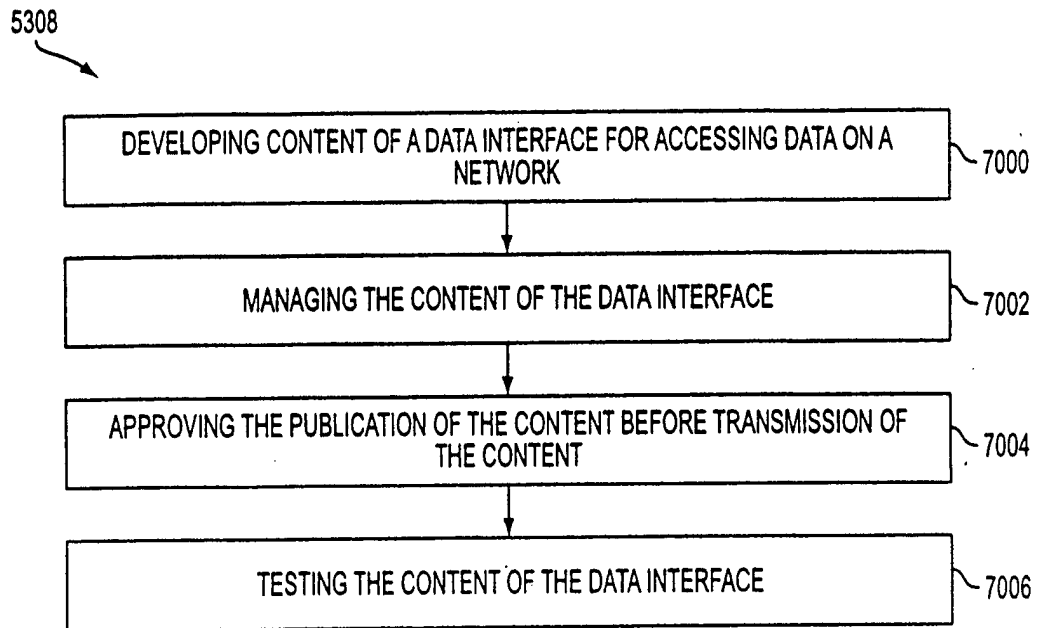


FIG. 70

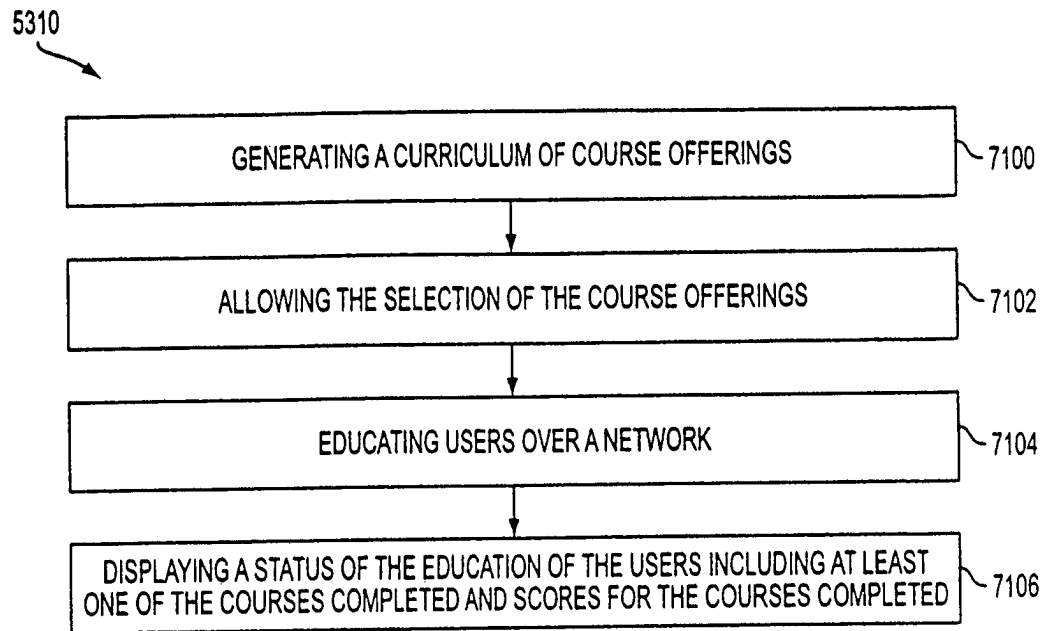


FIG. 71



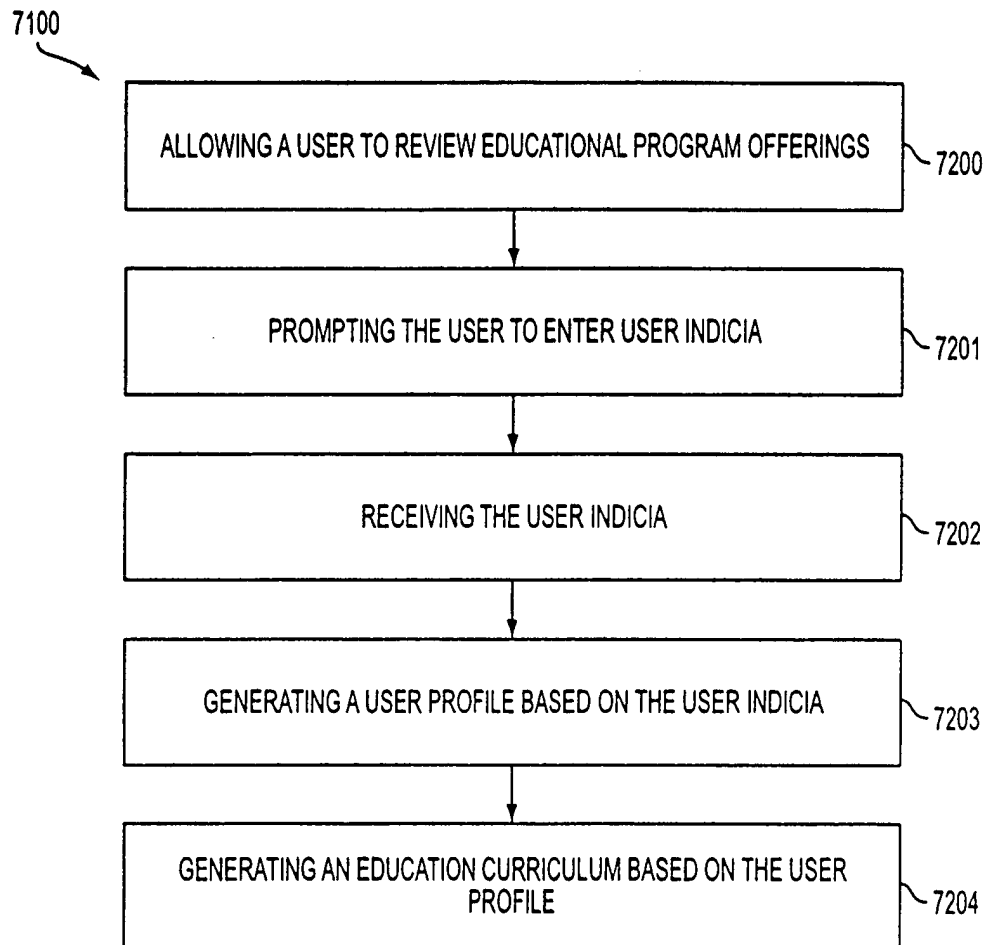


FIG. 72

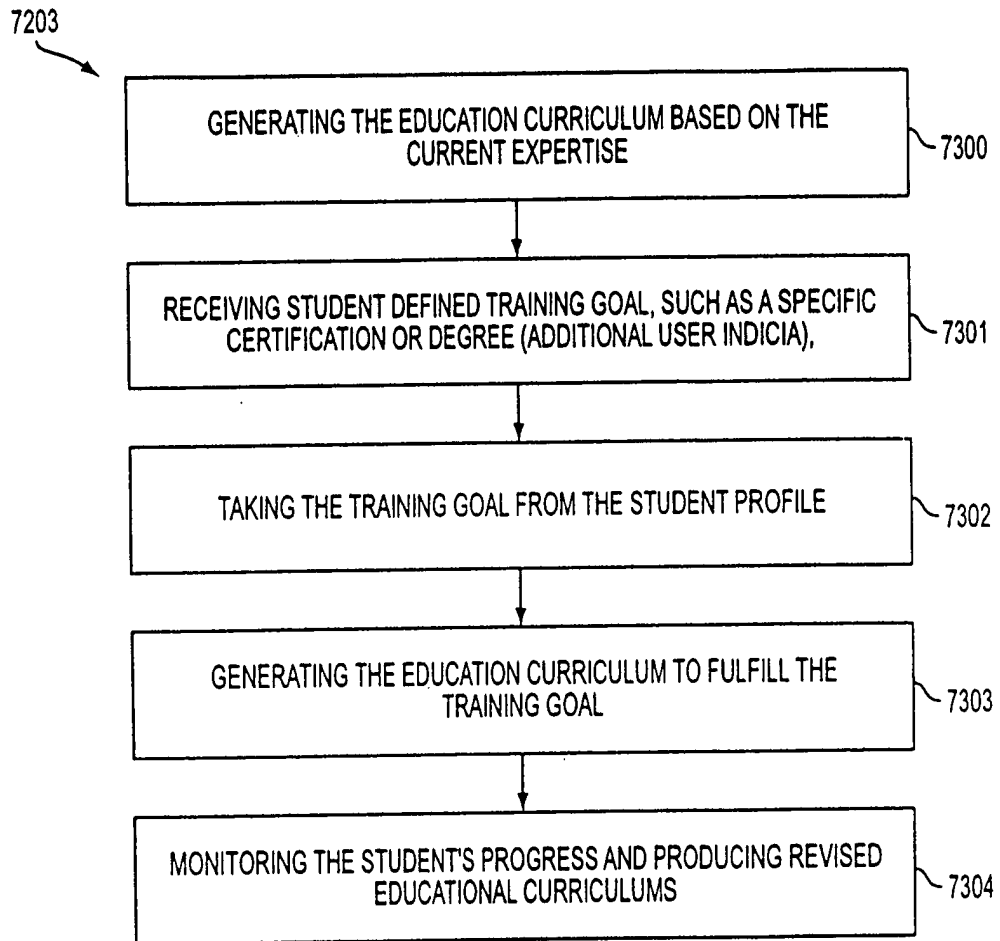


FIG. 73

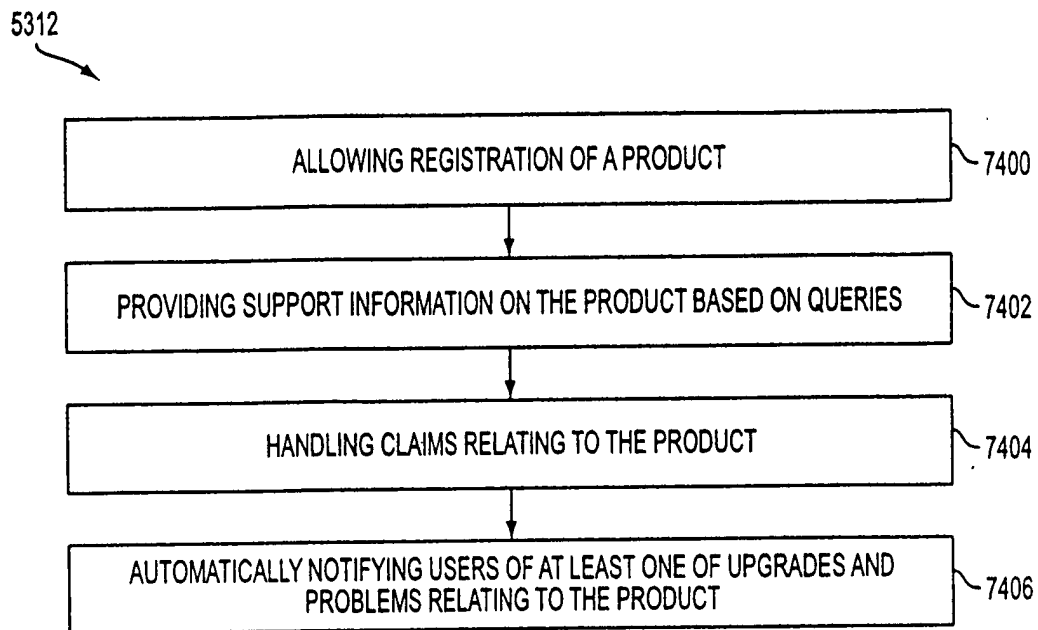


FIG. 74

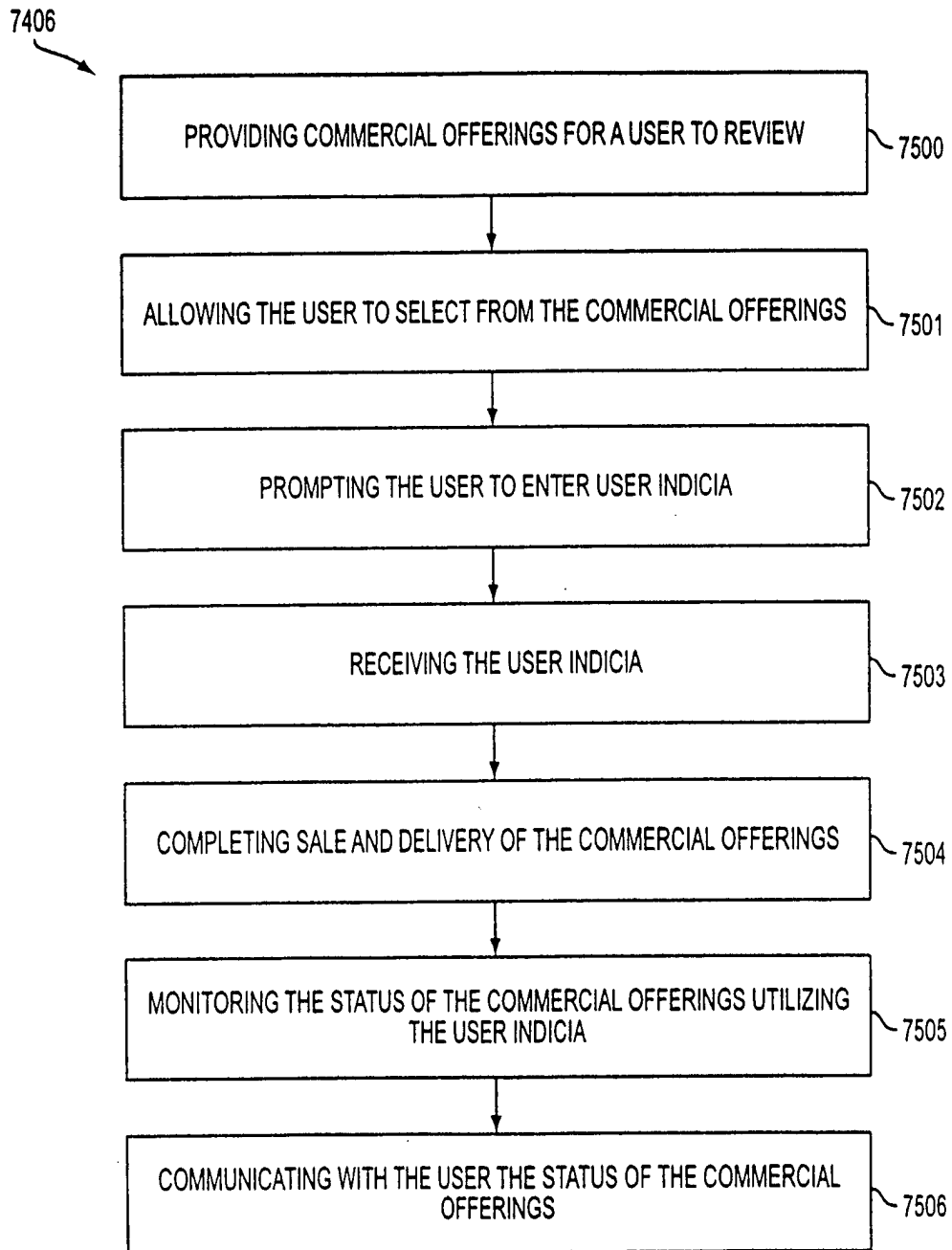


FIG. 75

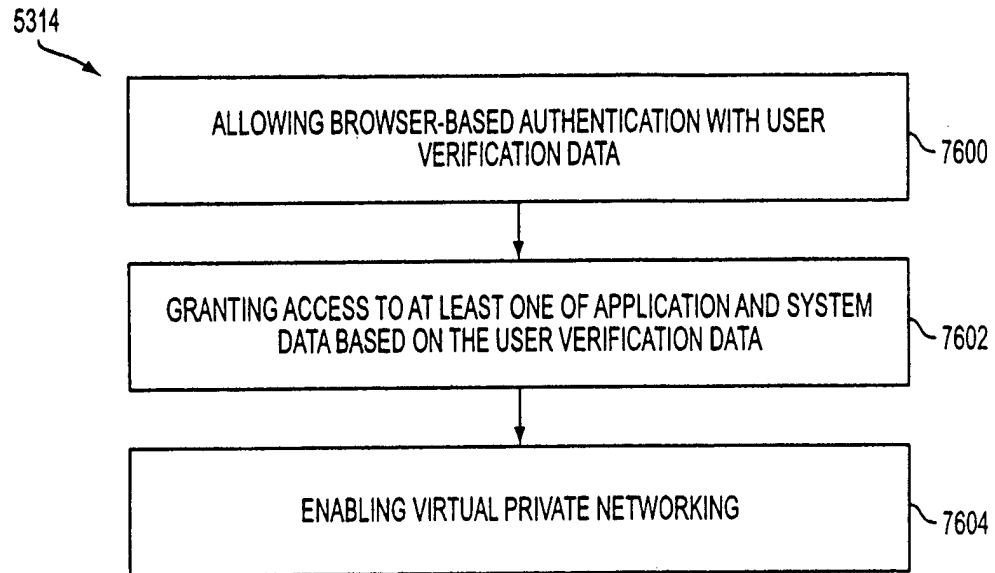


FIG. 76

5316

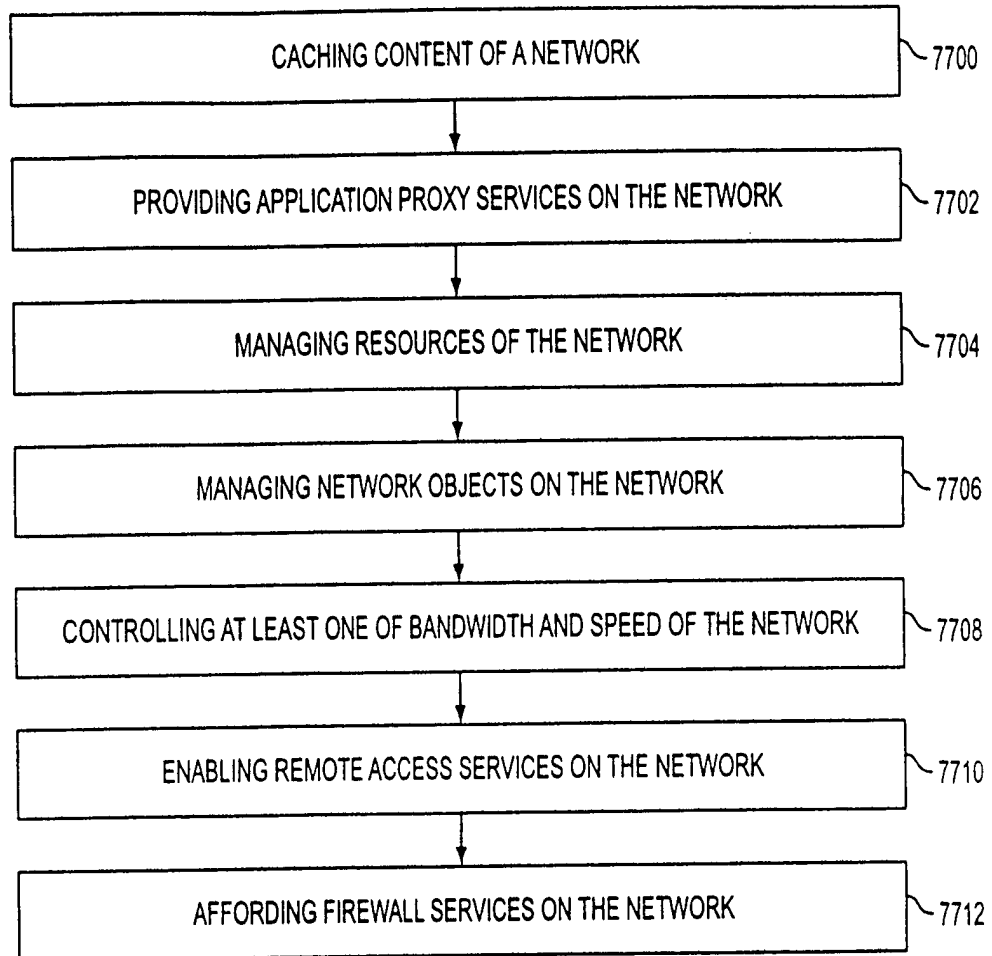


FIG. 77

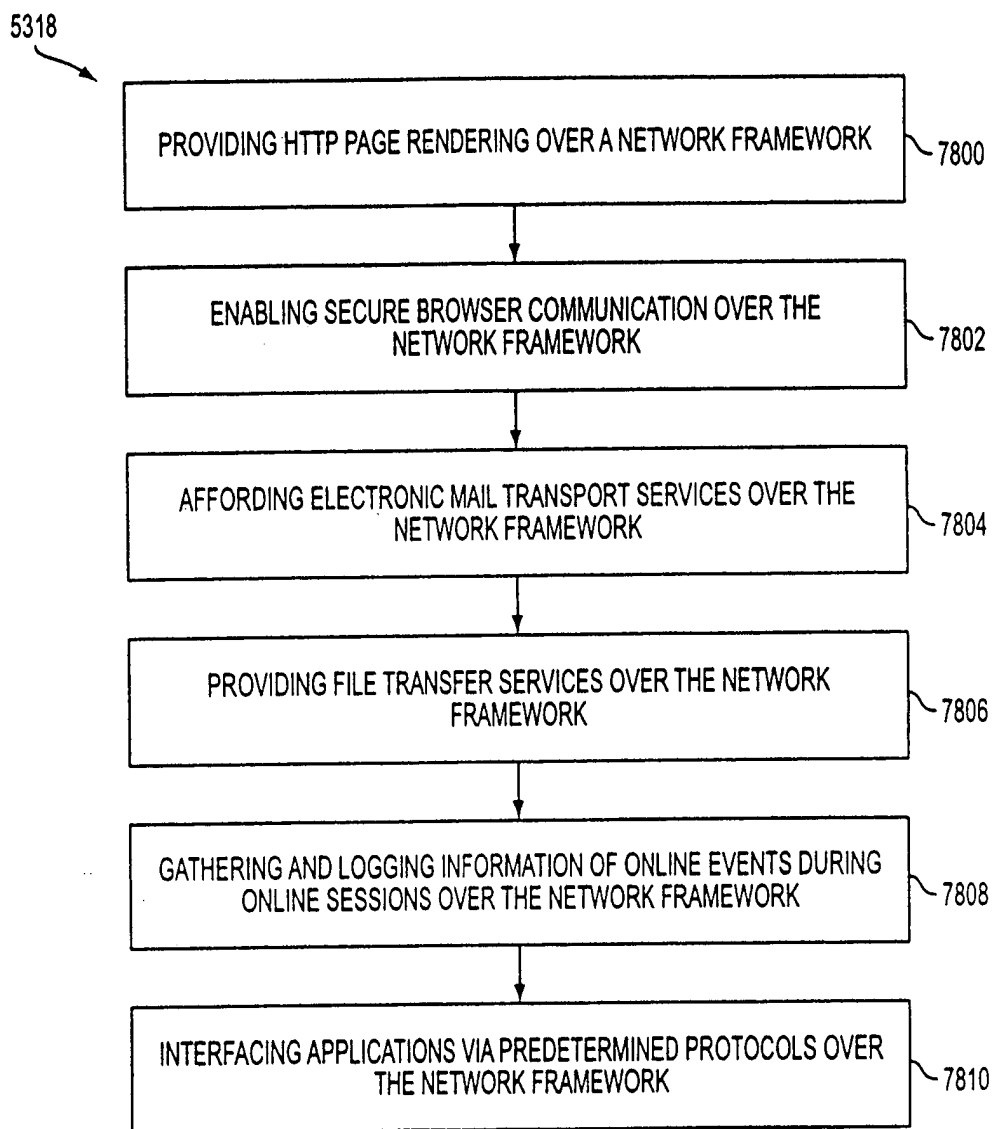


FIG. 78

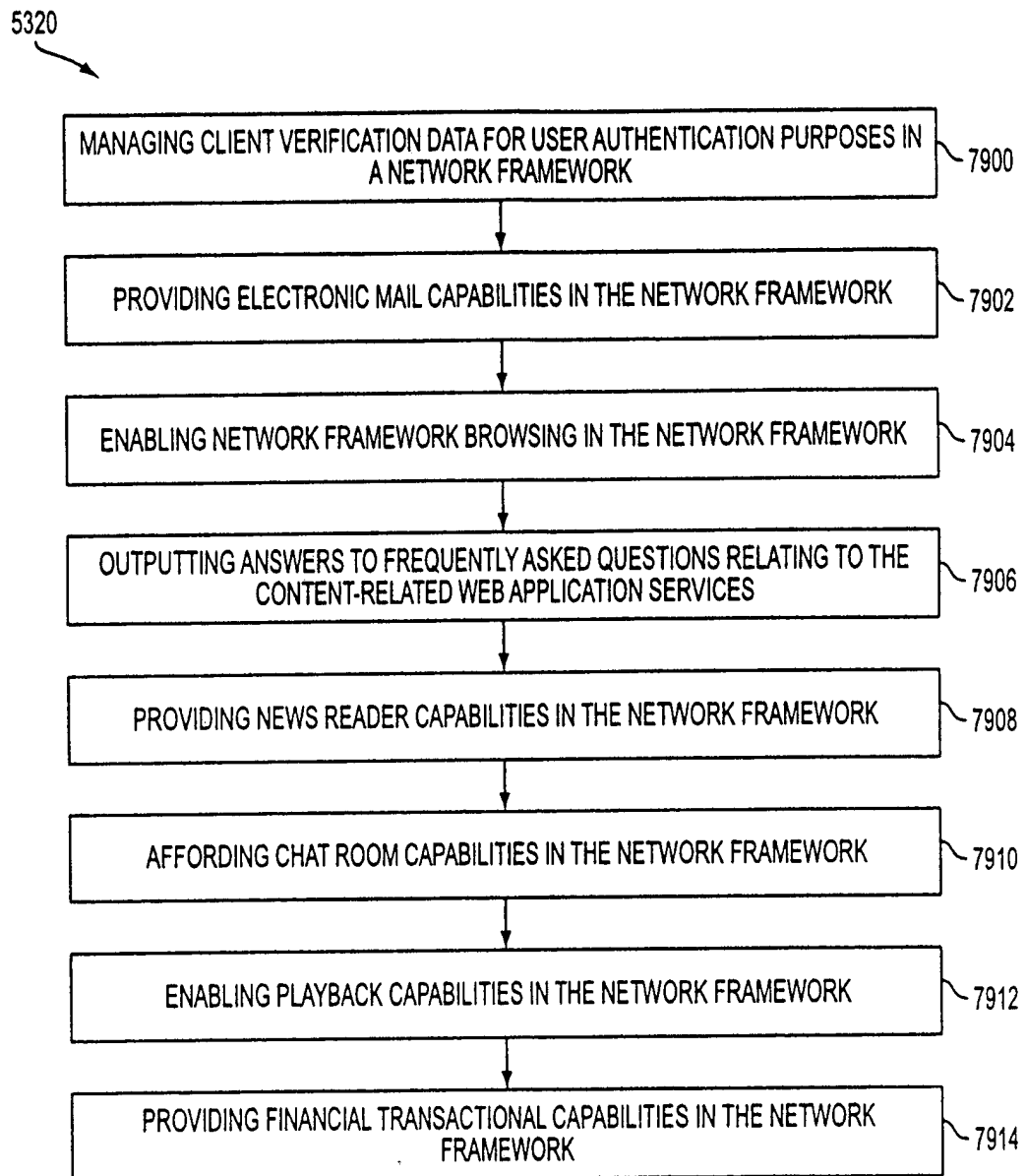


FIG. 79



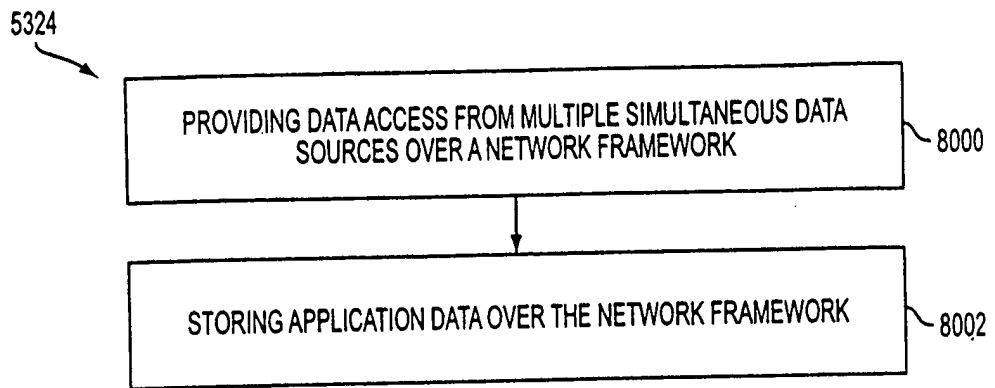


FIG. 80

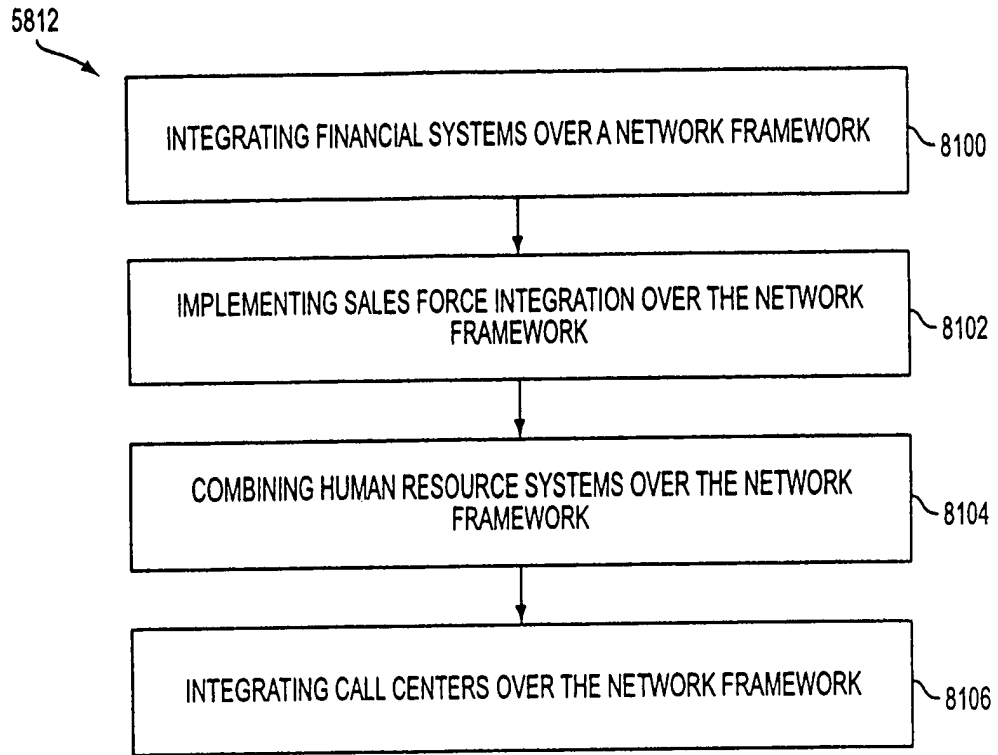


FIG. 81

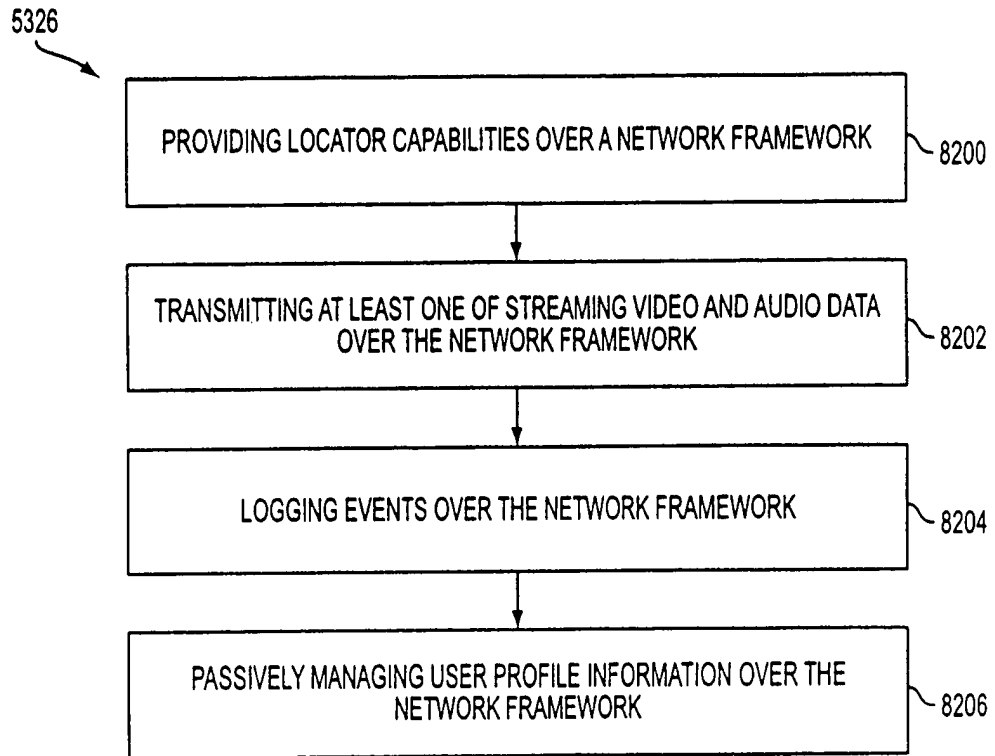


FIG. 82

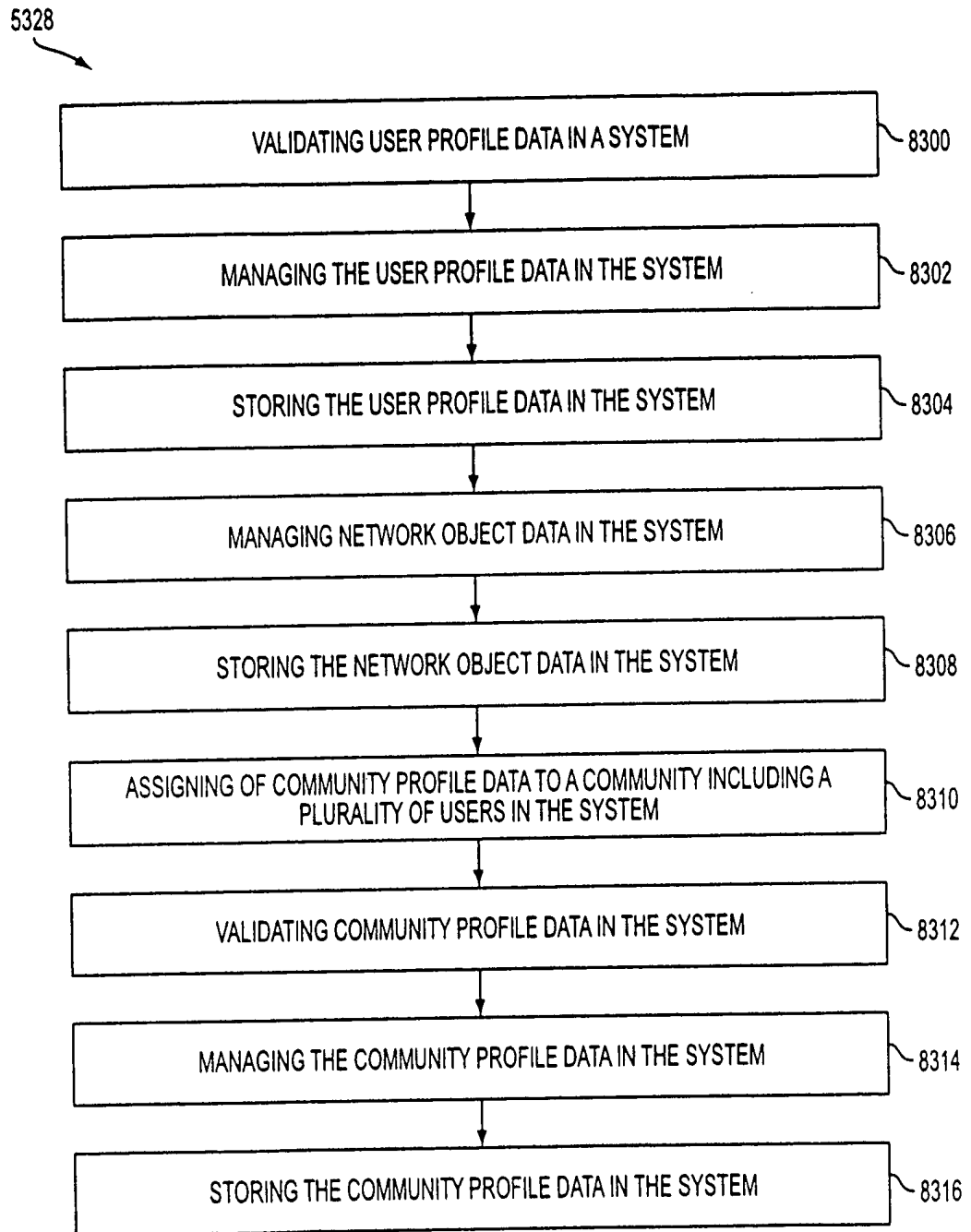


FIG. 83

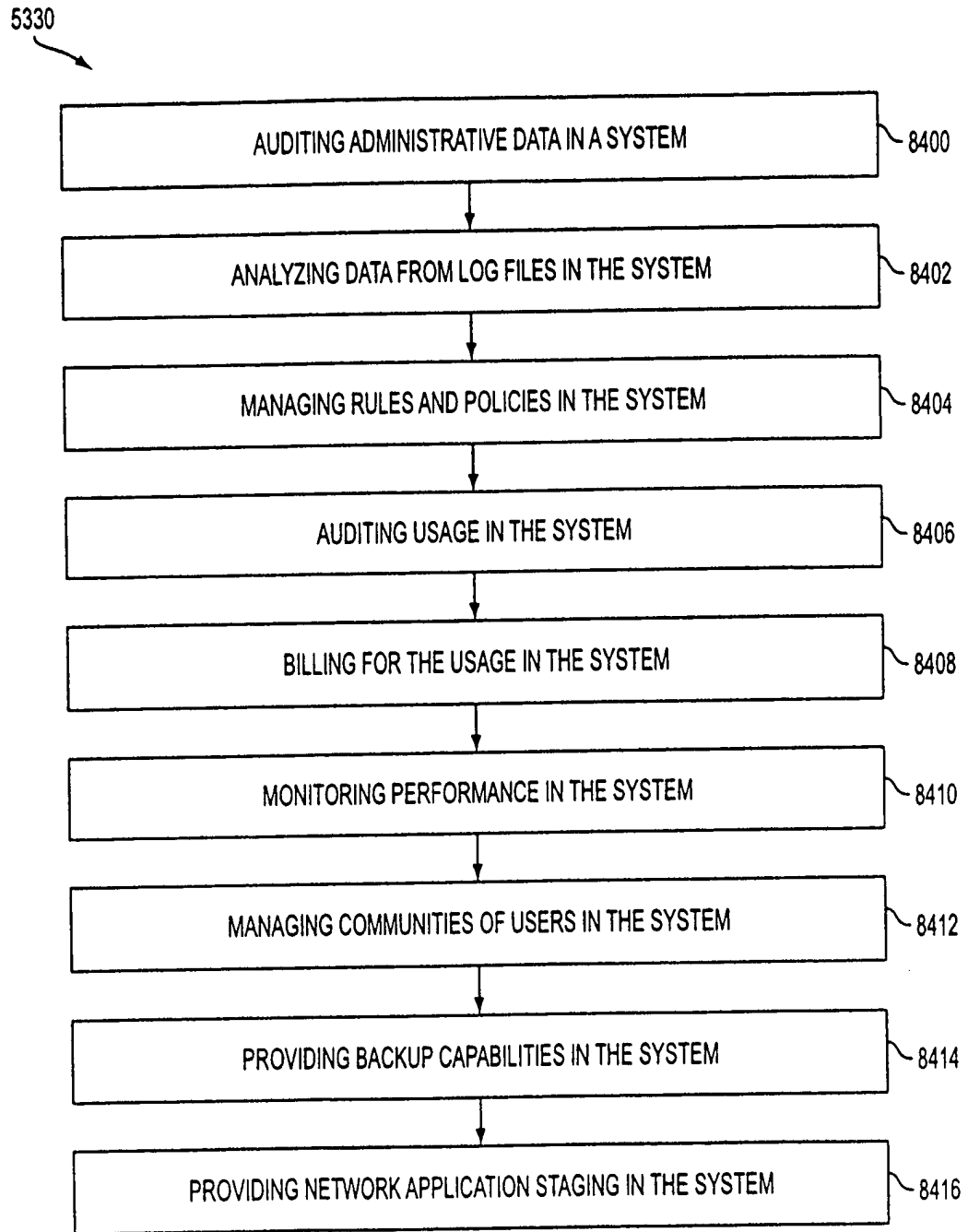


FIG. 84

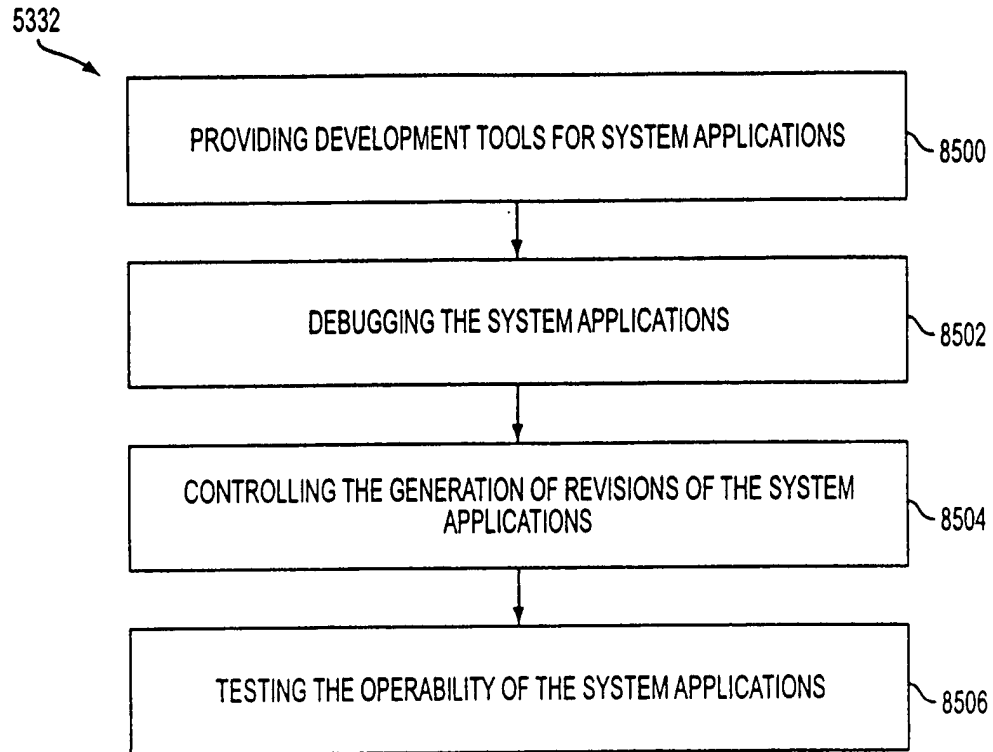


FIG. 85

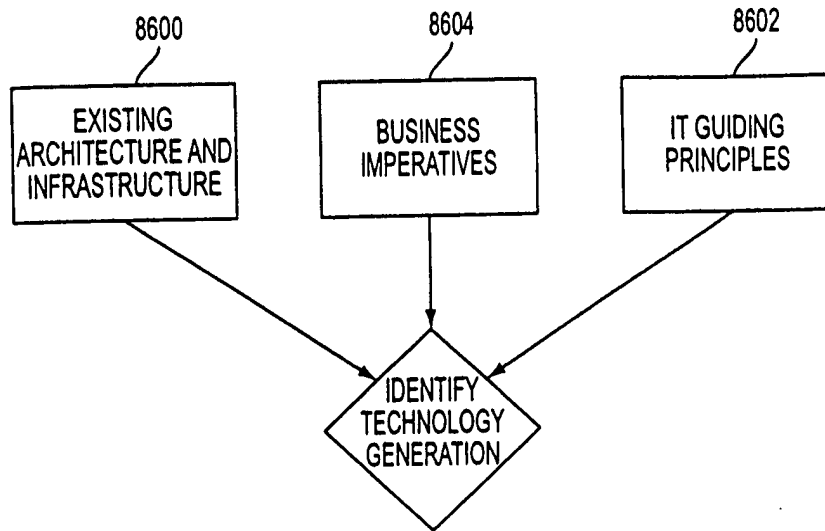


FIG. 86

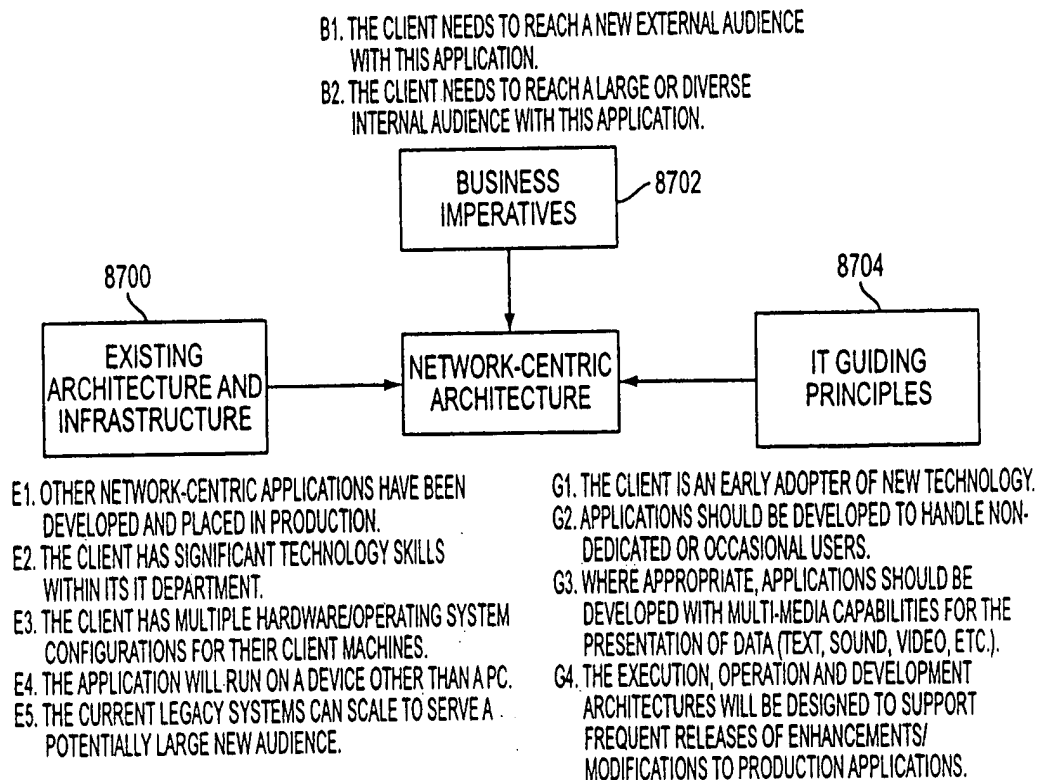


FIG. 87

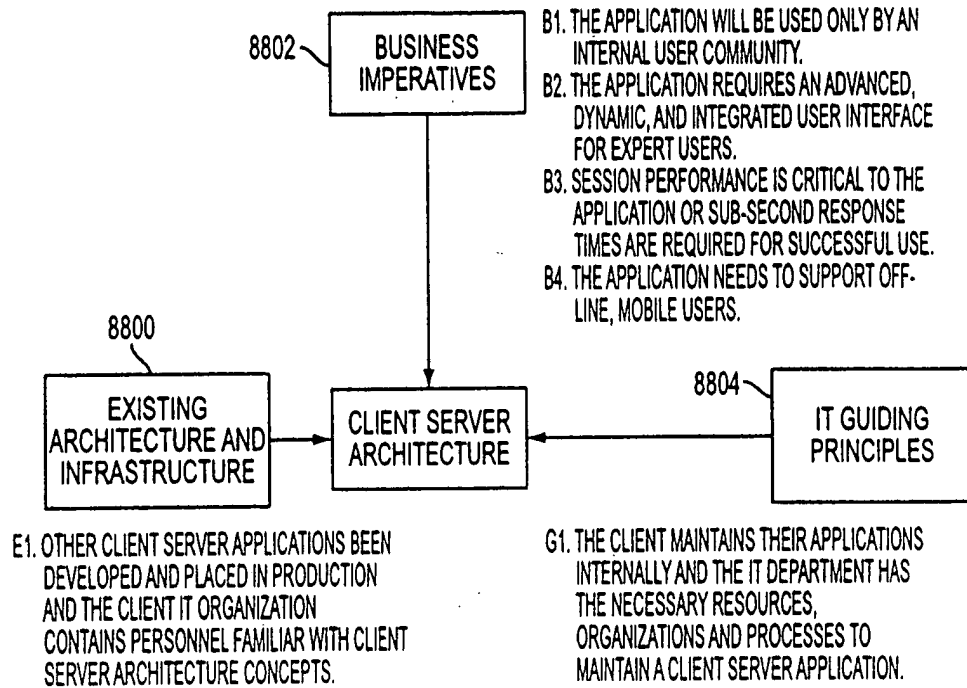


FIG. 88

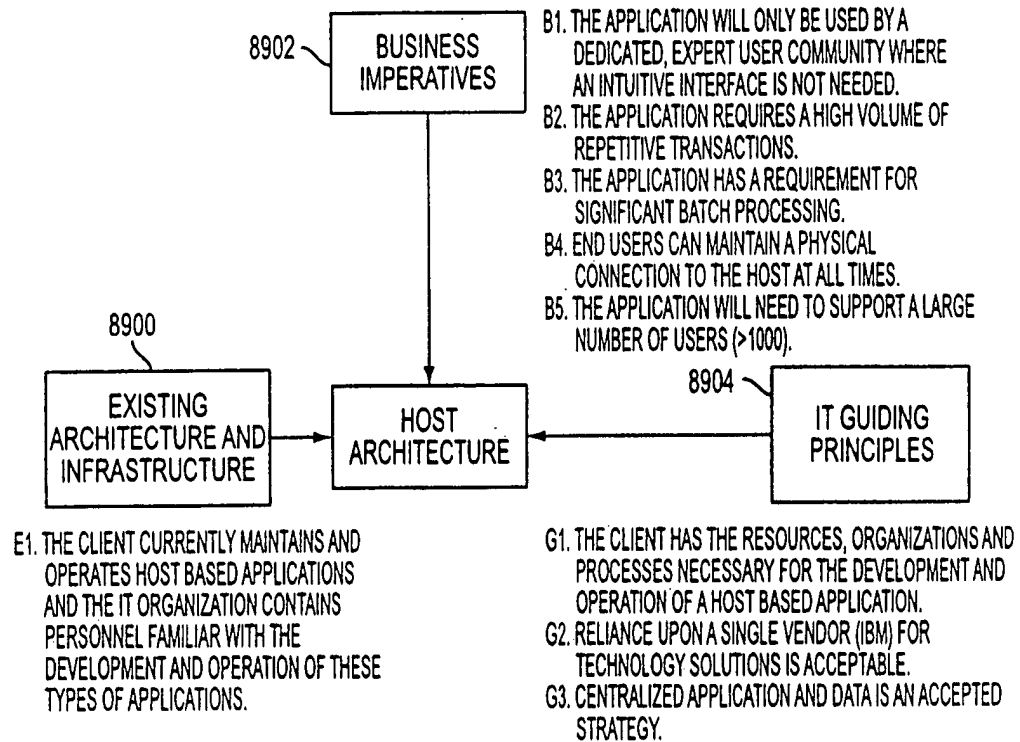


FIG. 89



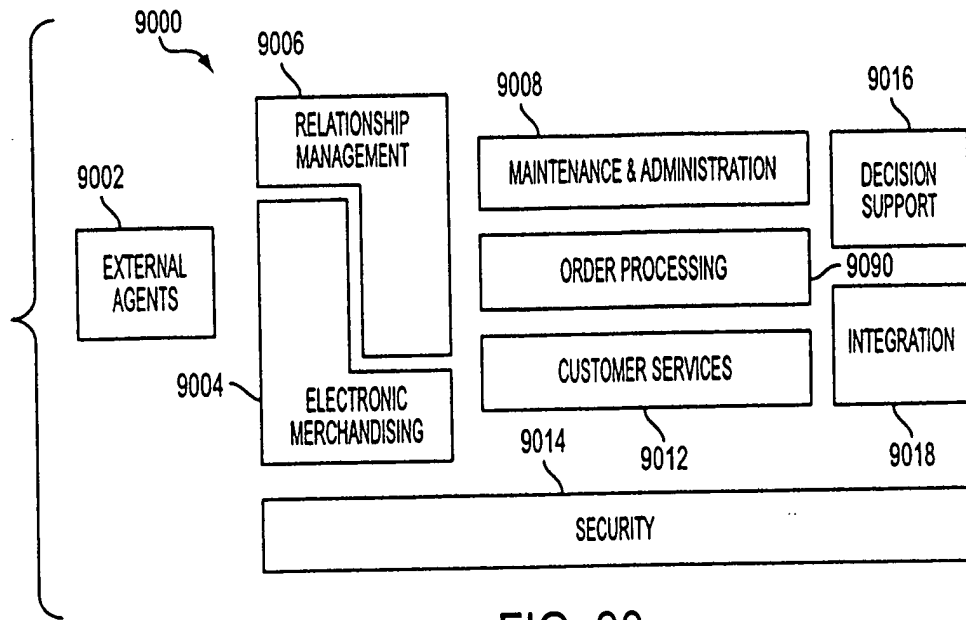


FIG. 90

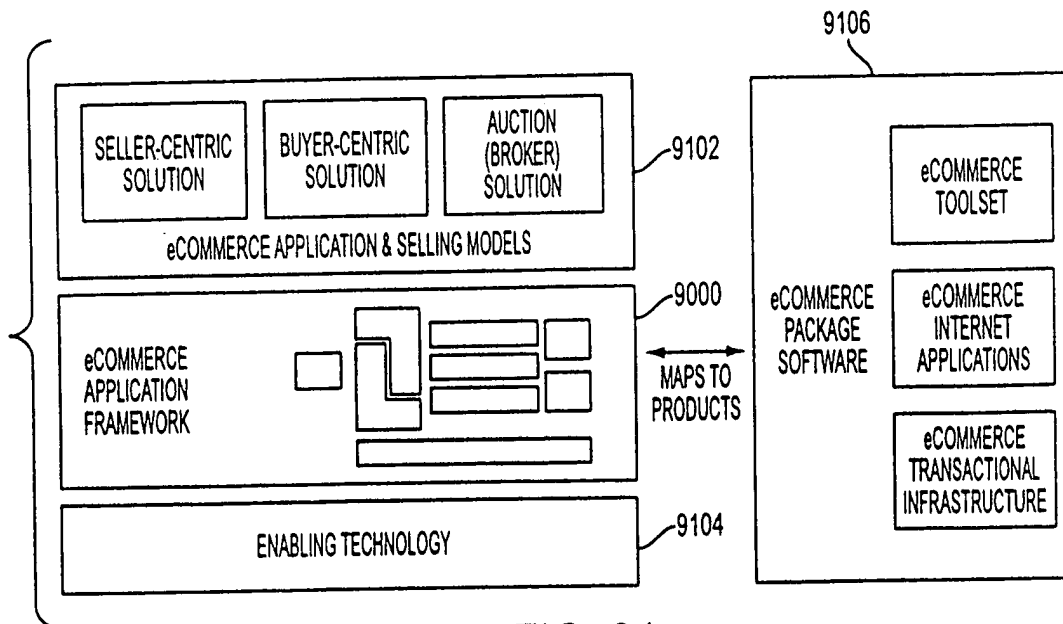


FIG. 91

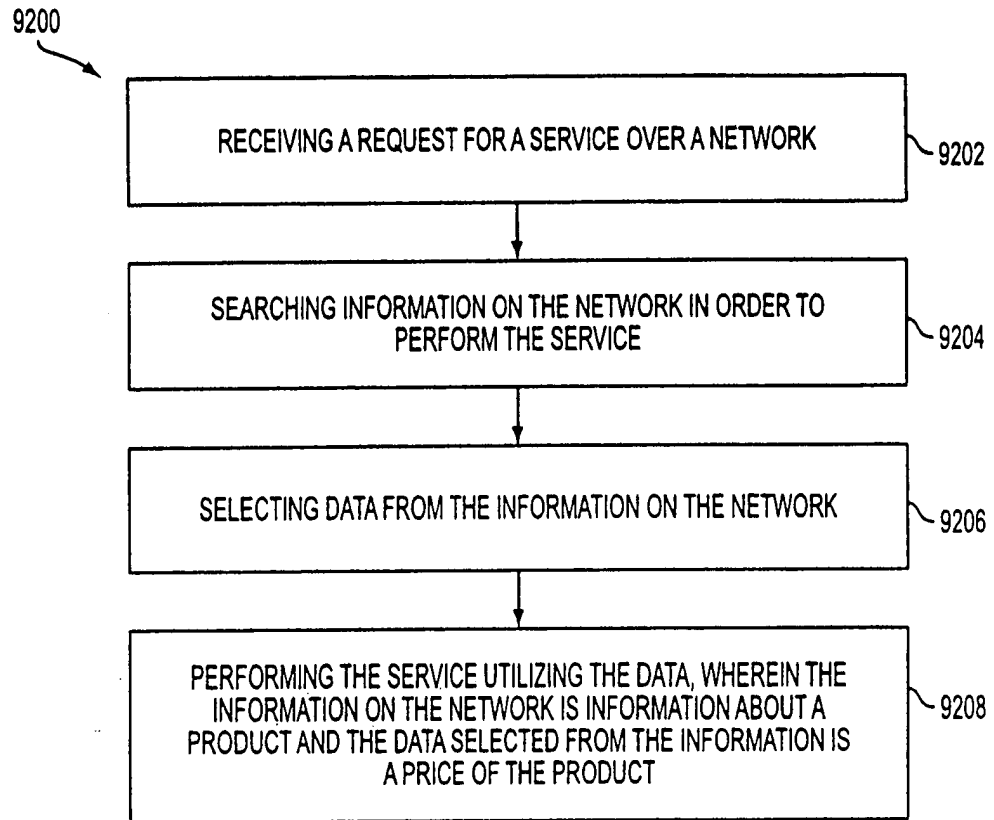


FIG. 92

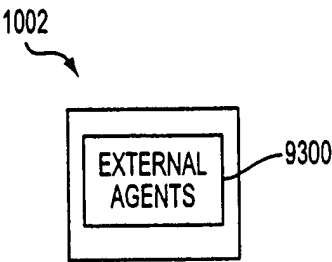


FIG. 93

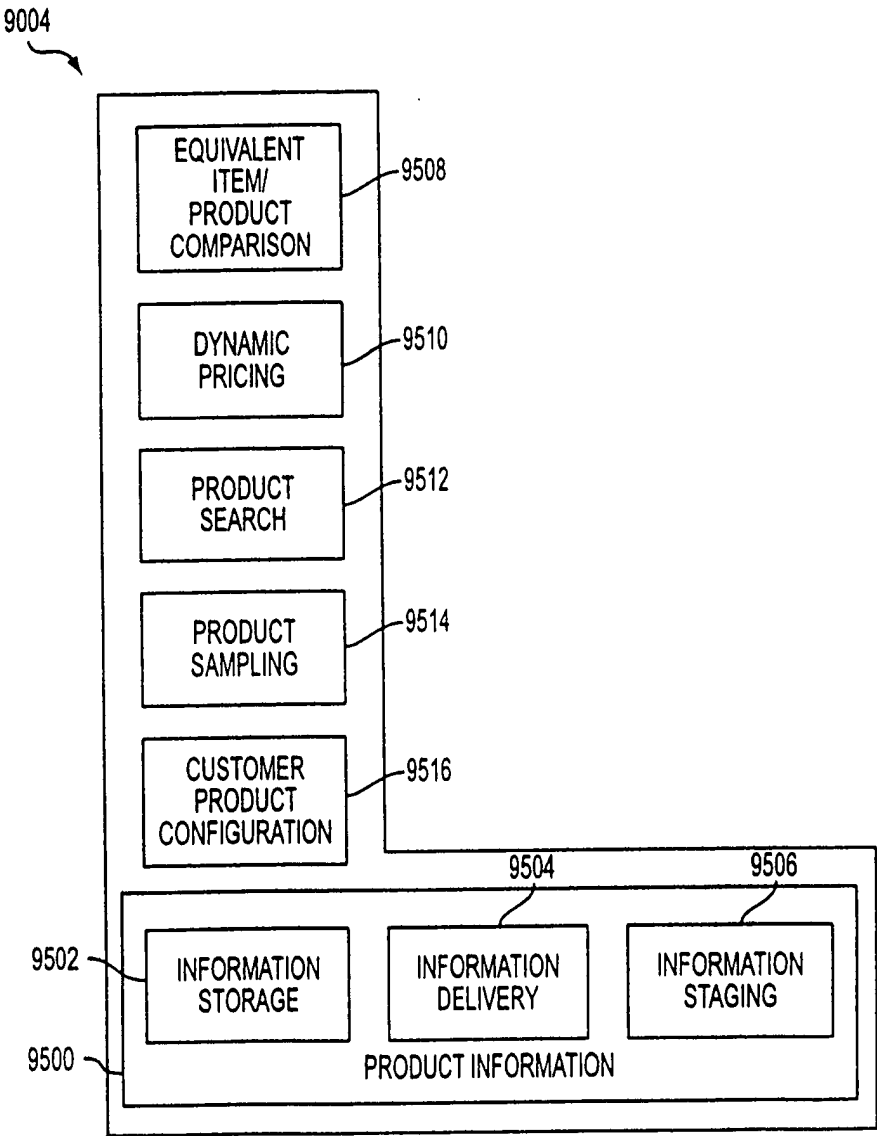


FIG. 95

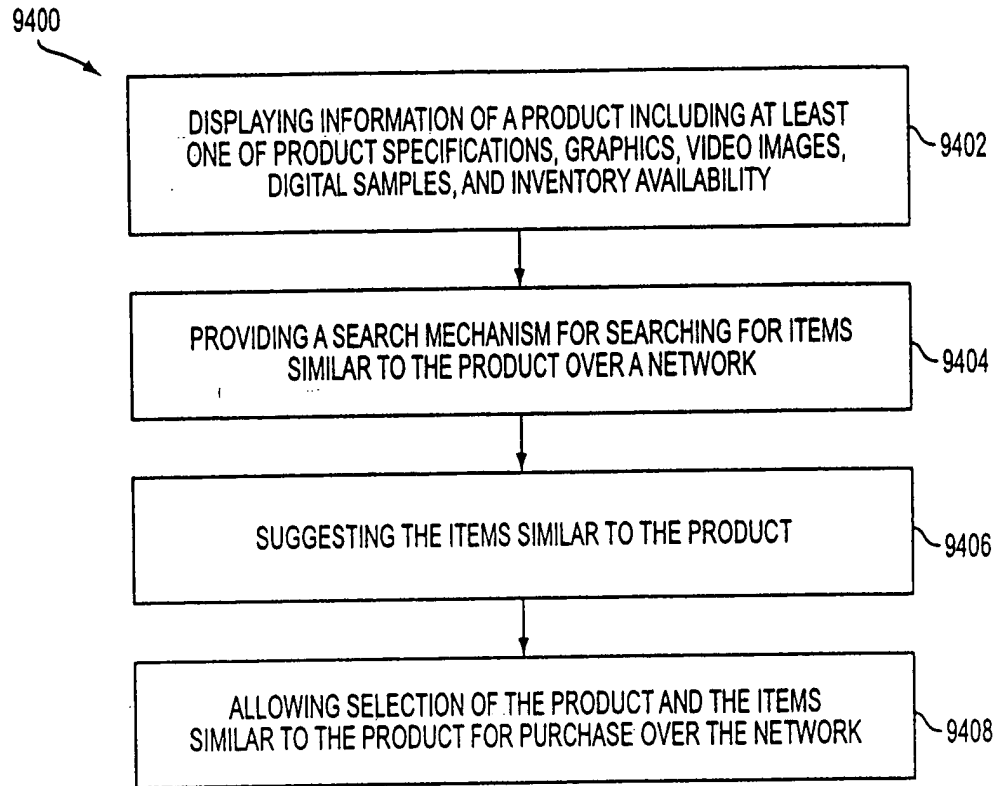


FIG. 94

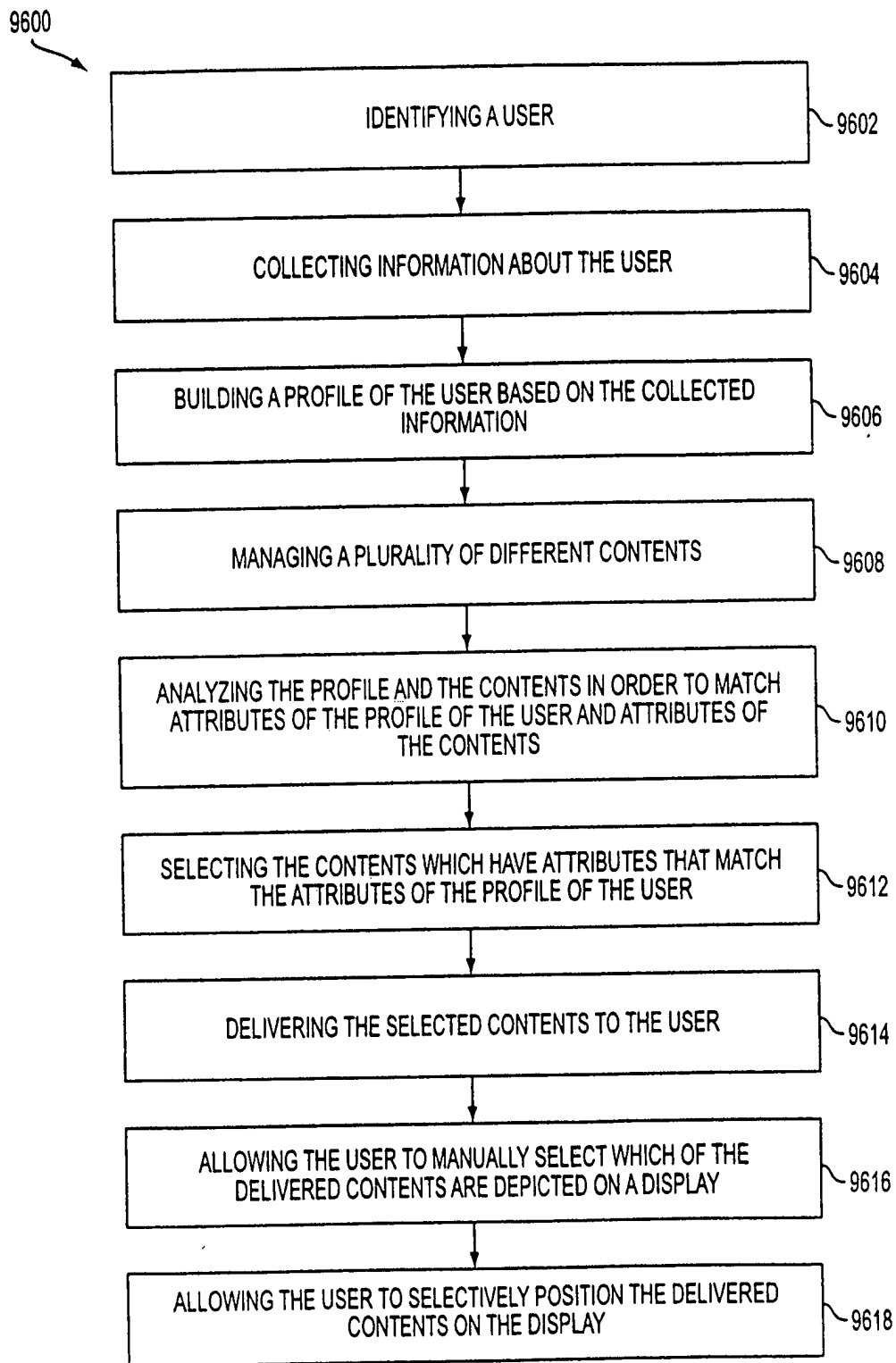
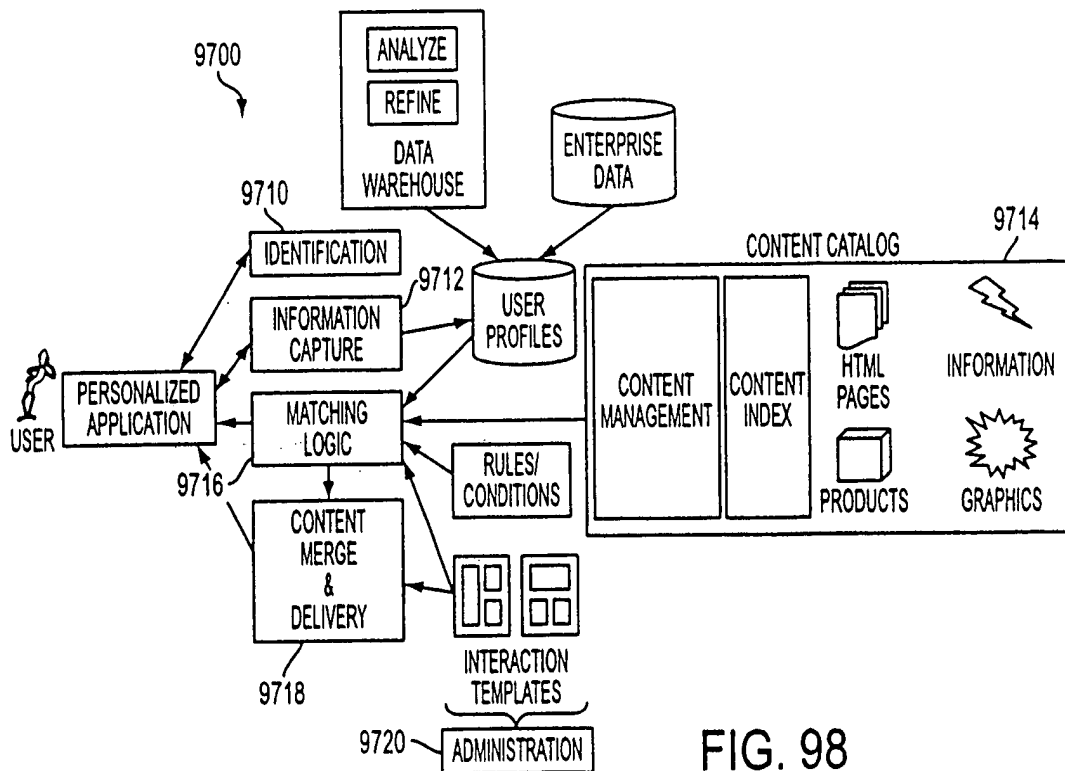
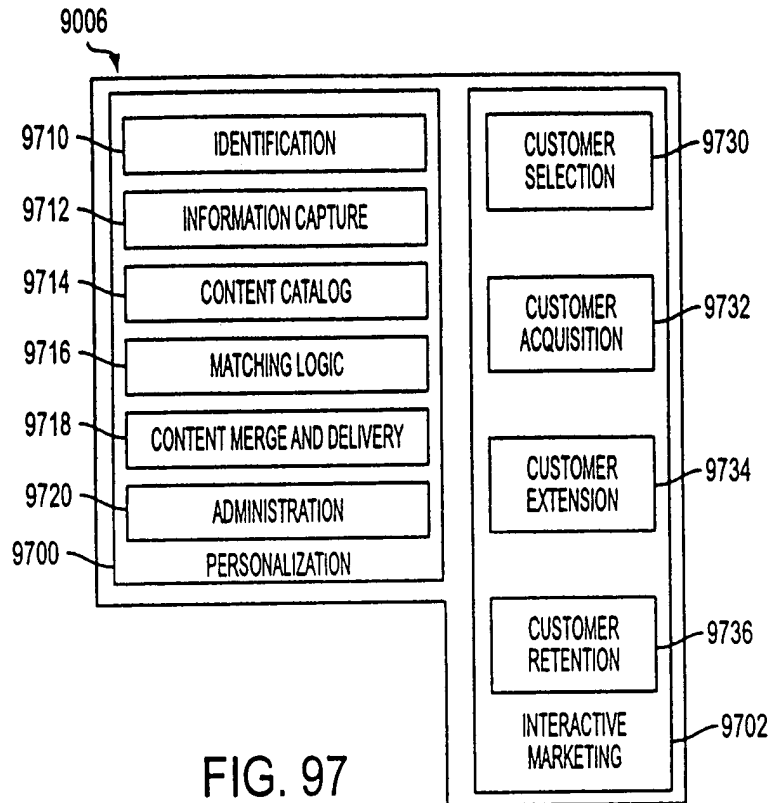
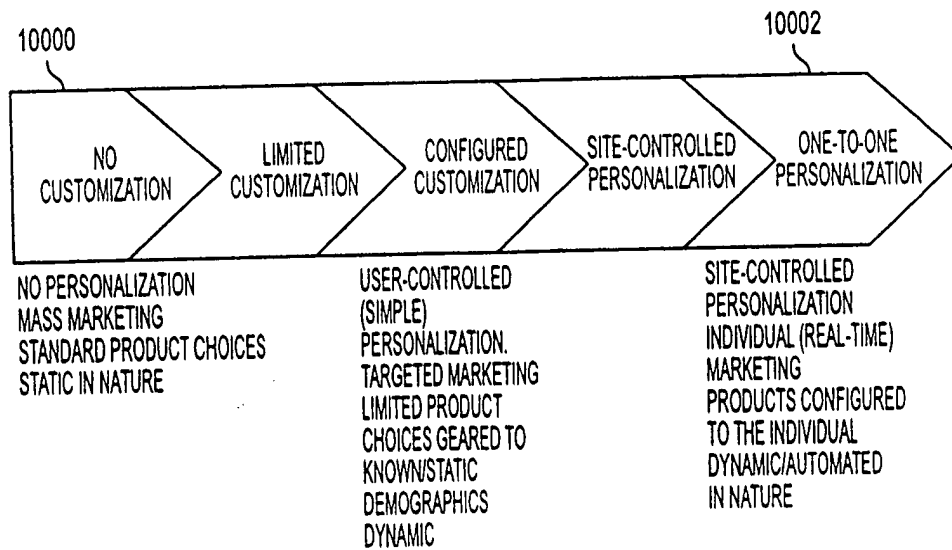
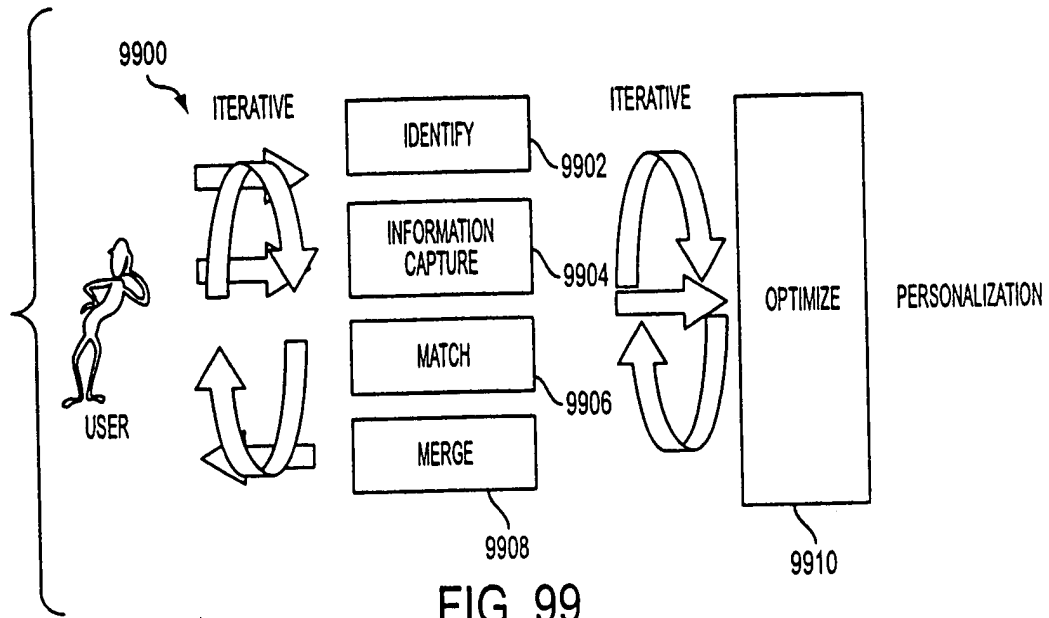


FIG. 96





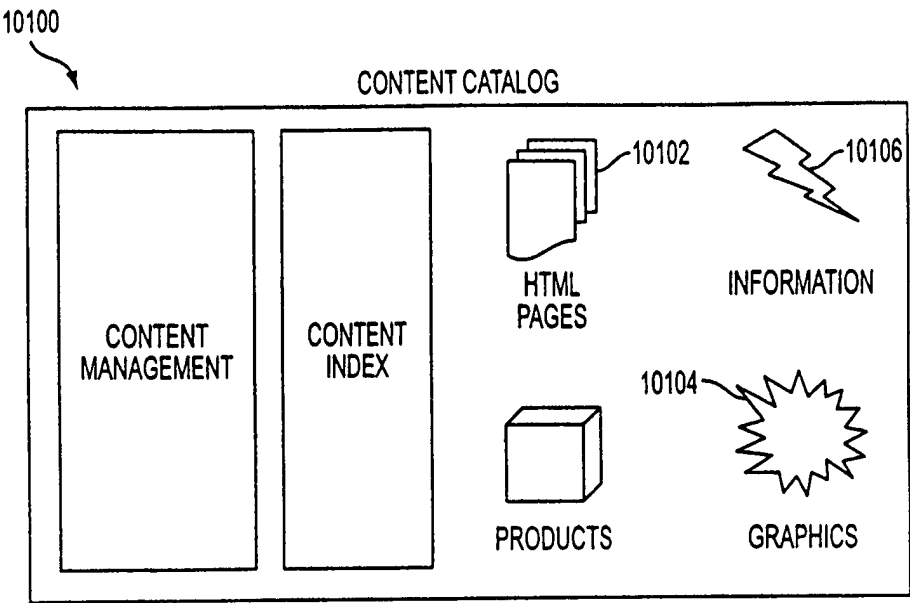


FIG. 101

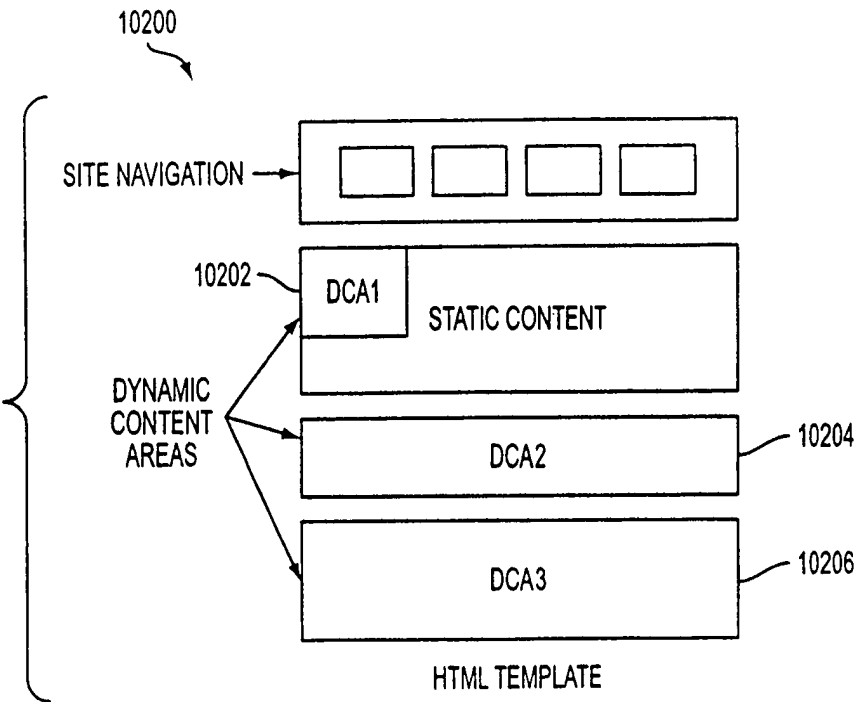


FIG. 102



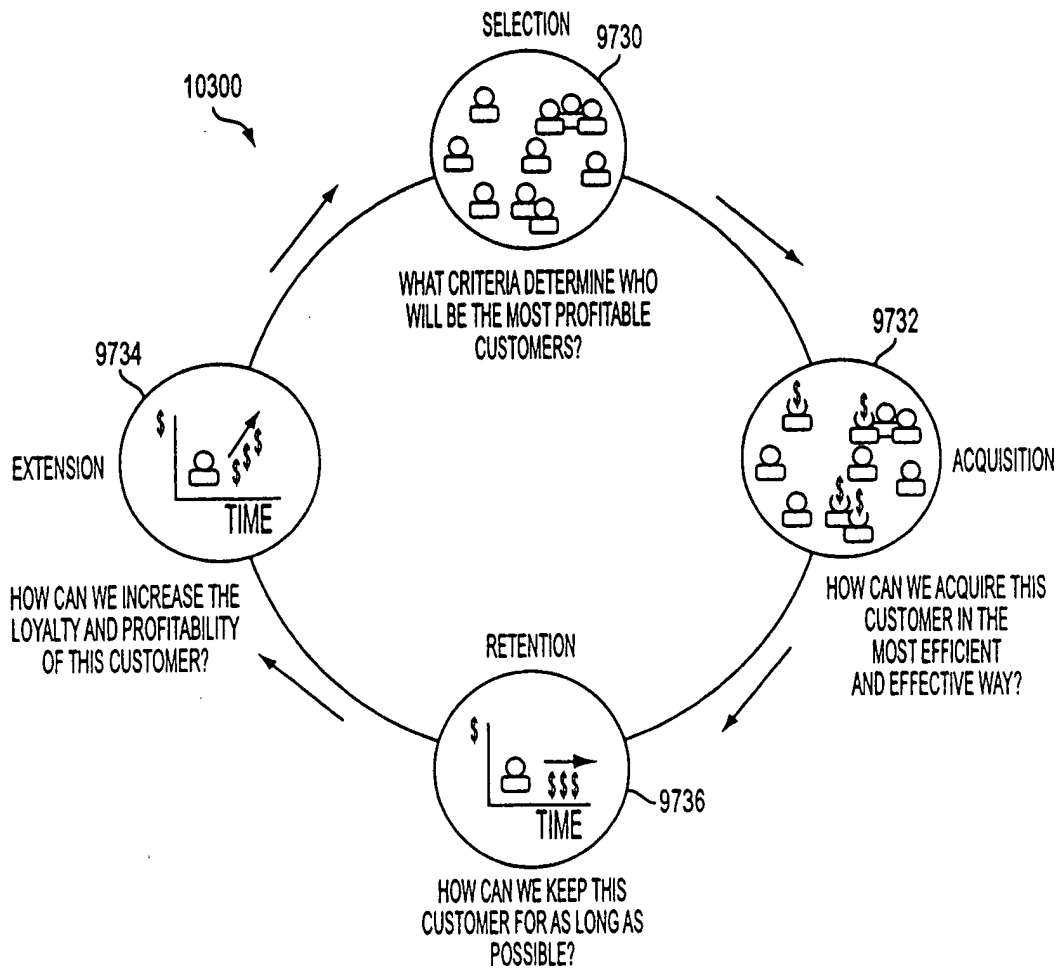


FIG. 103

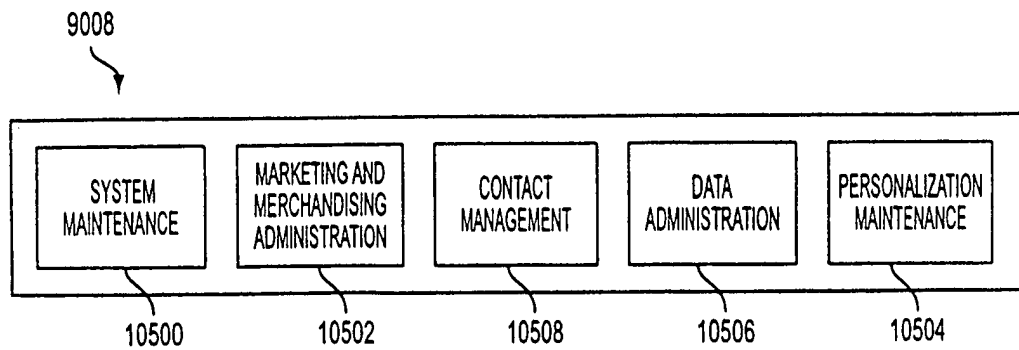


FIG. 105

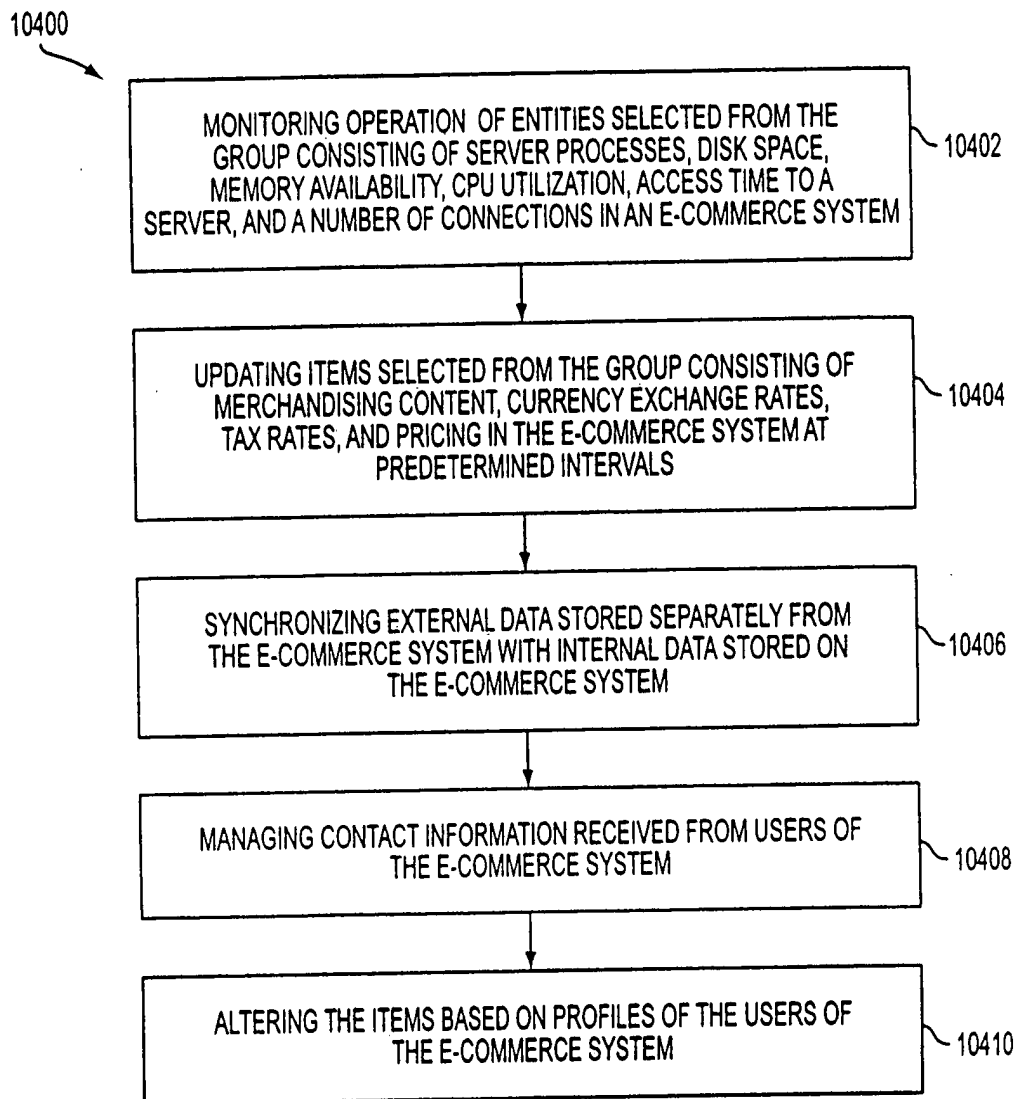


FIG. 104

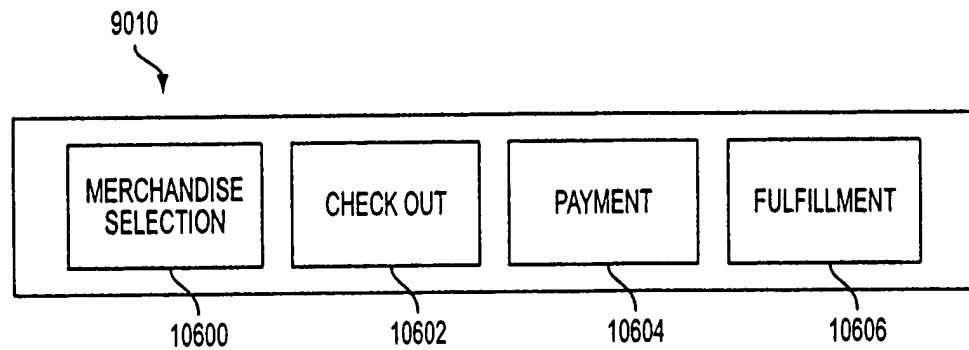


FIG. 106

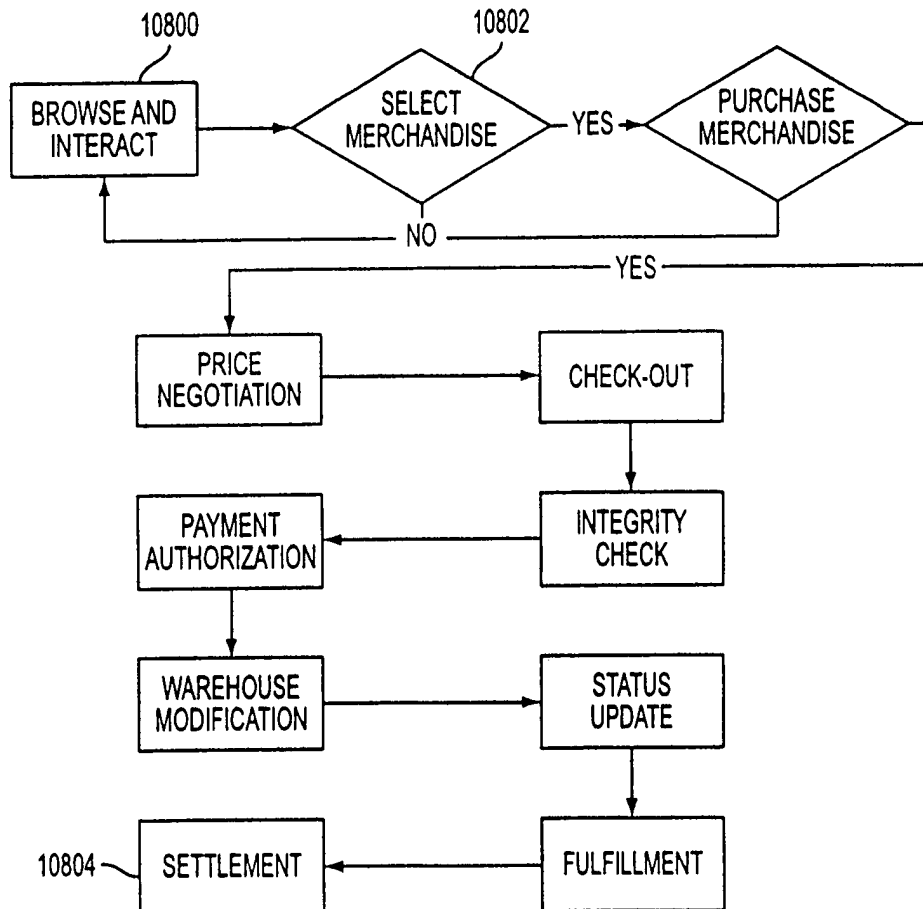


FIG. 108

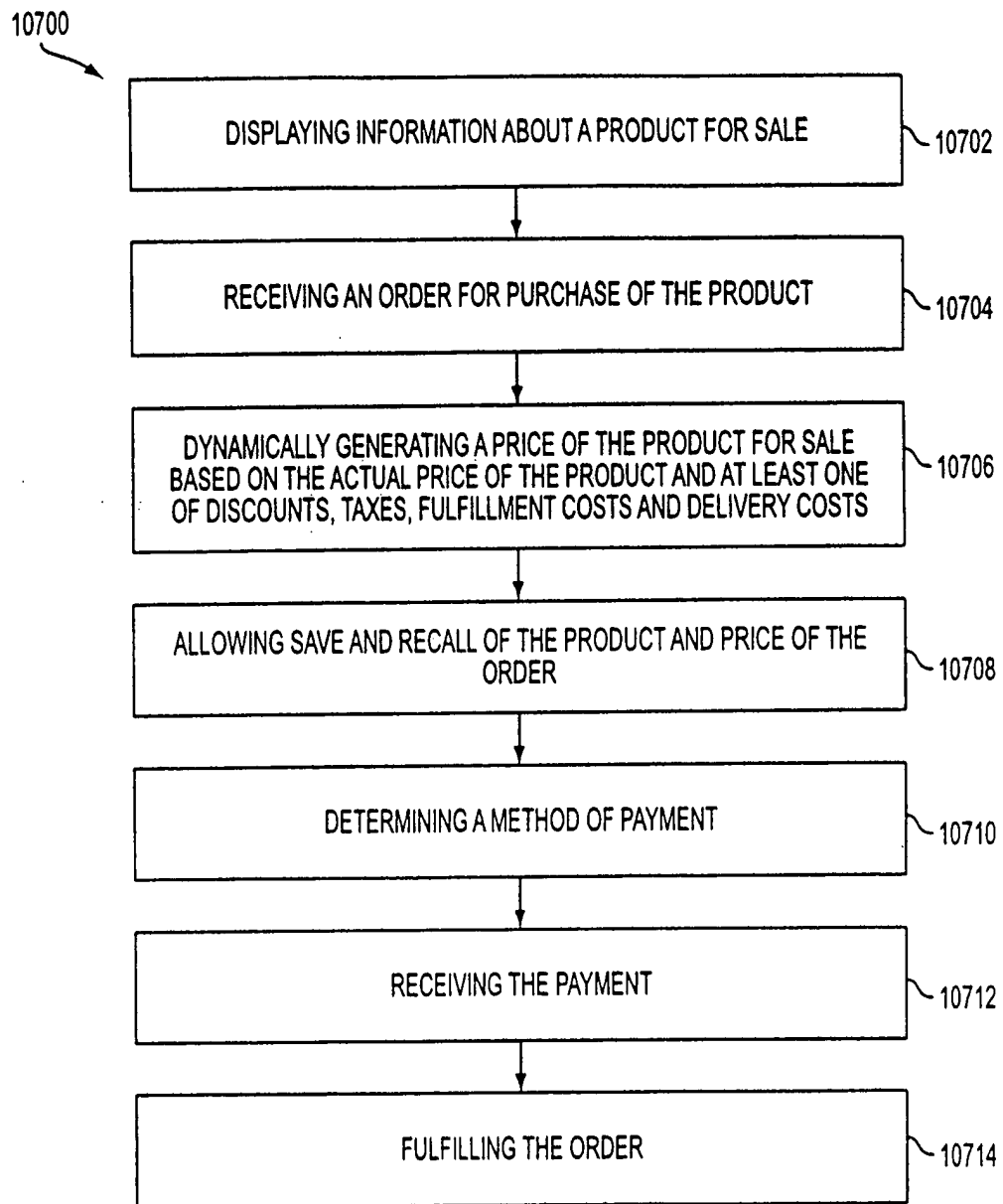


FIG. 107

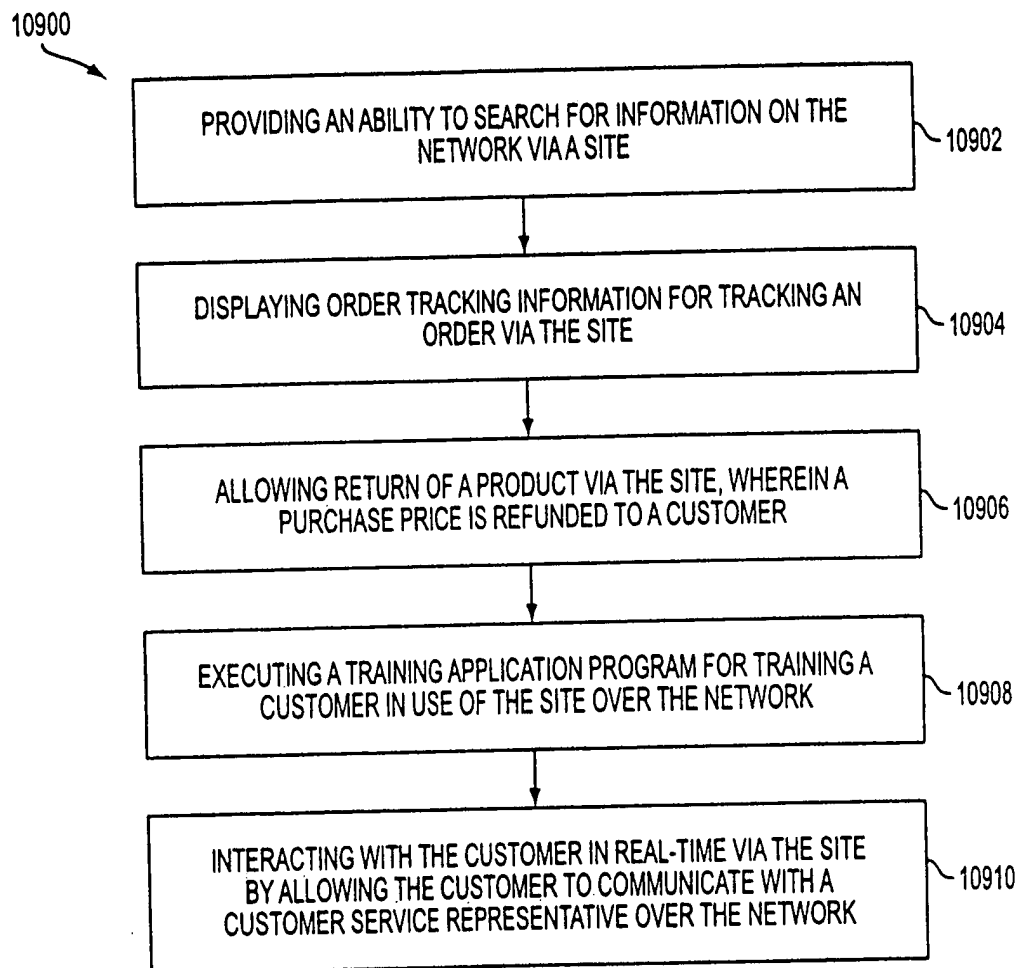


FIG. 109

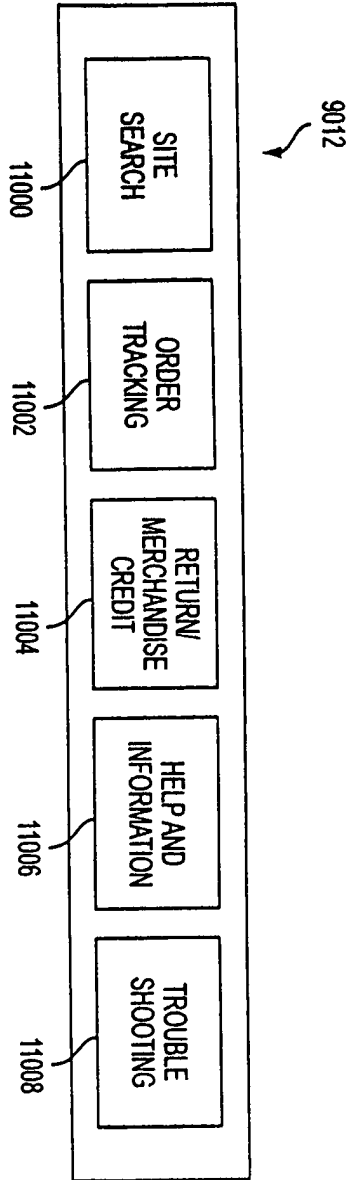


FIG. 110

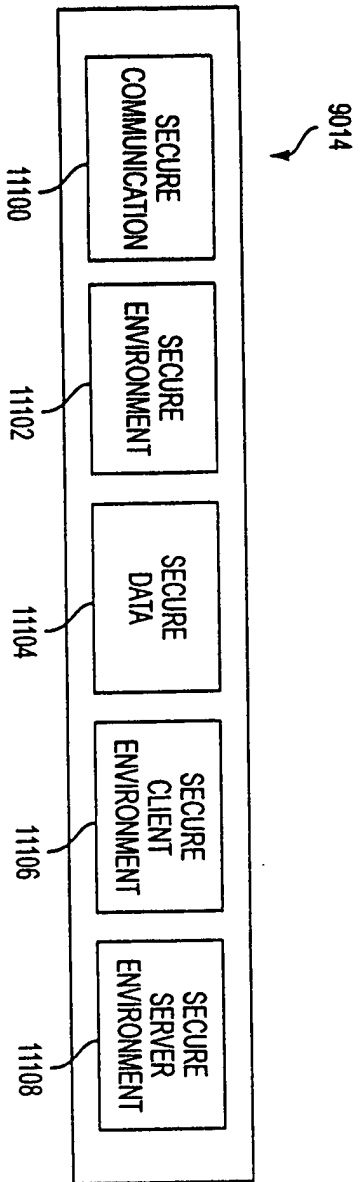


FIG. 111

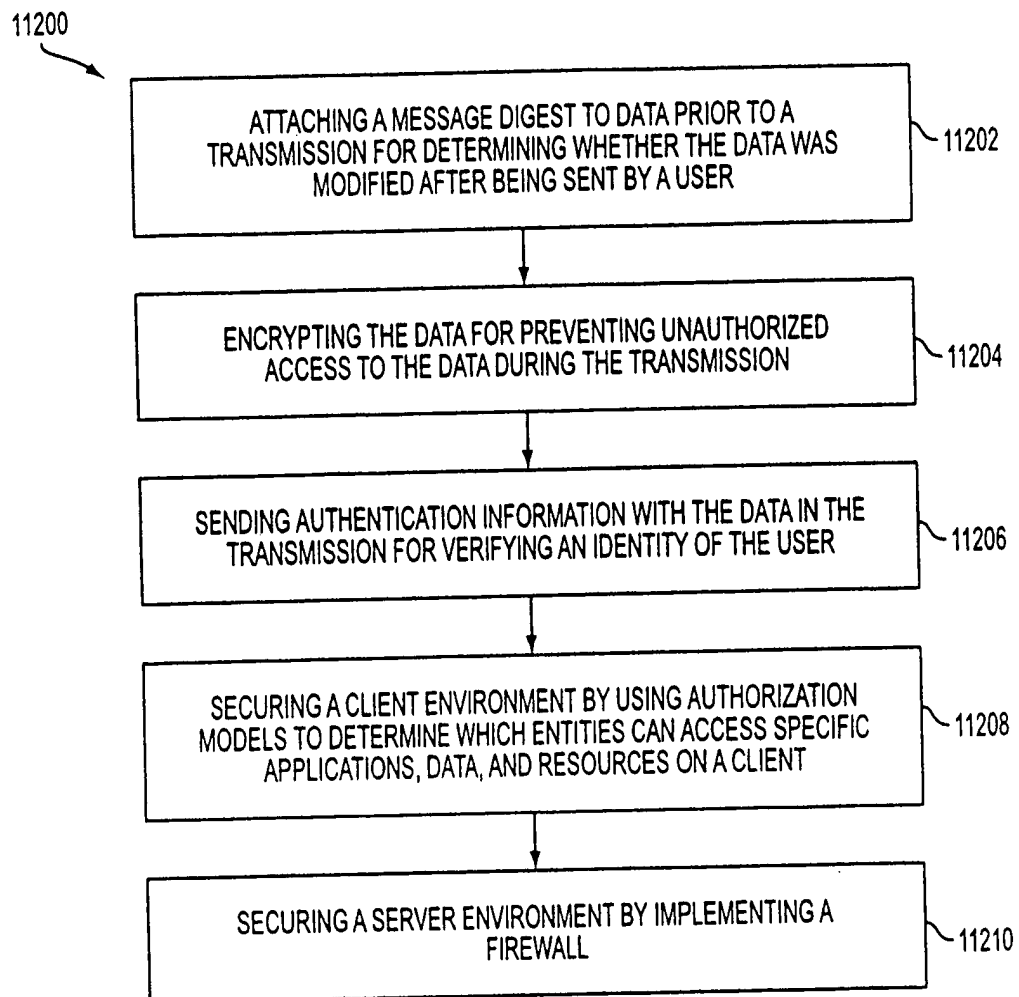


FIG. 112

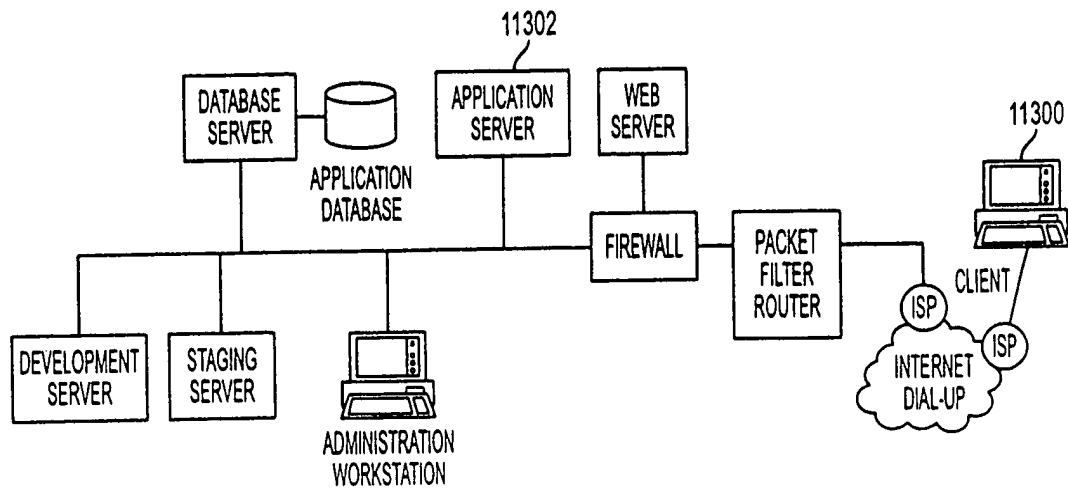


FIG. 113

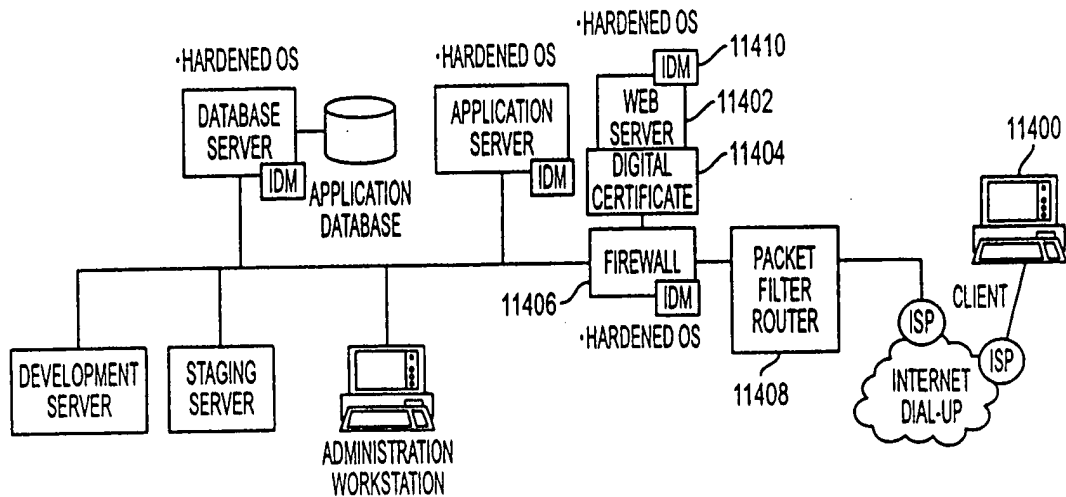


FIG. 114



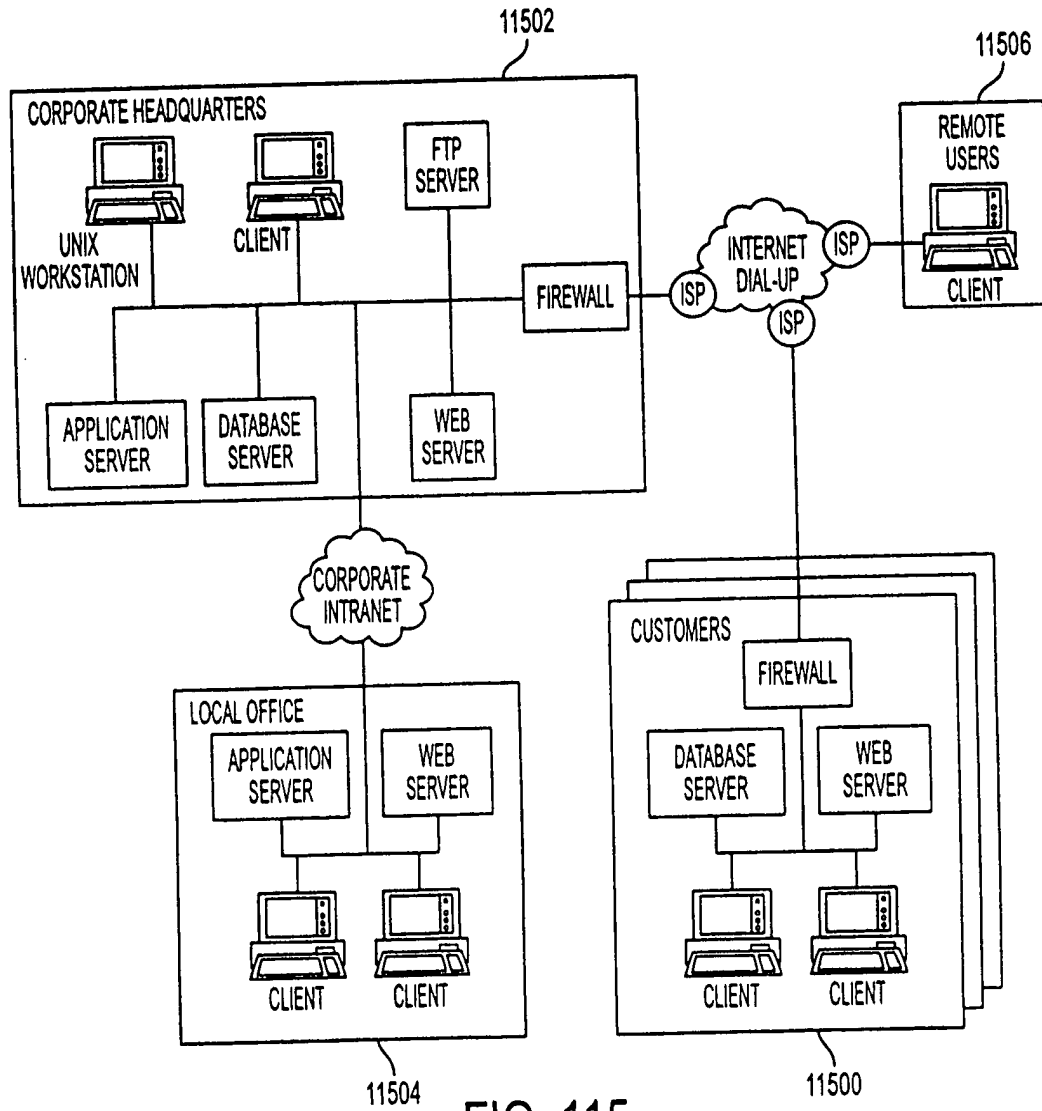


FIG. 115

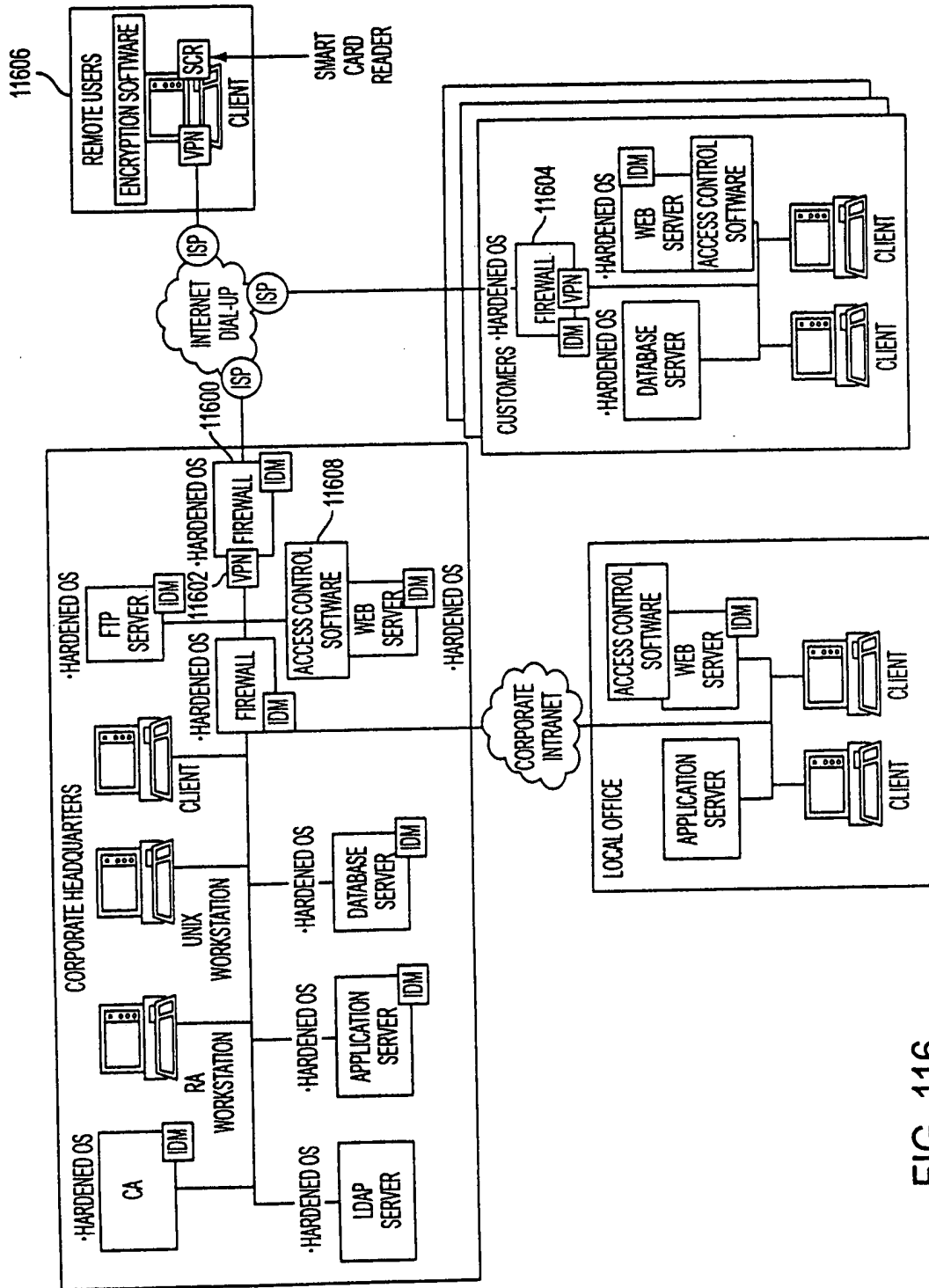


FIG. 116

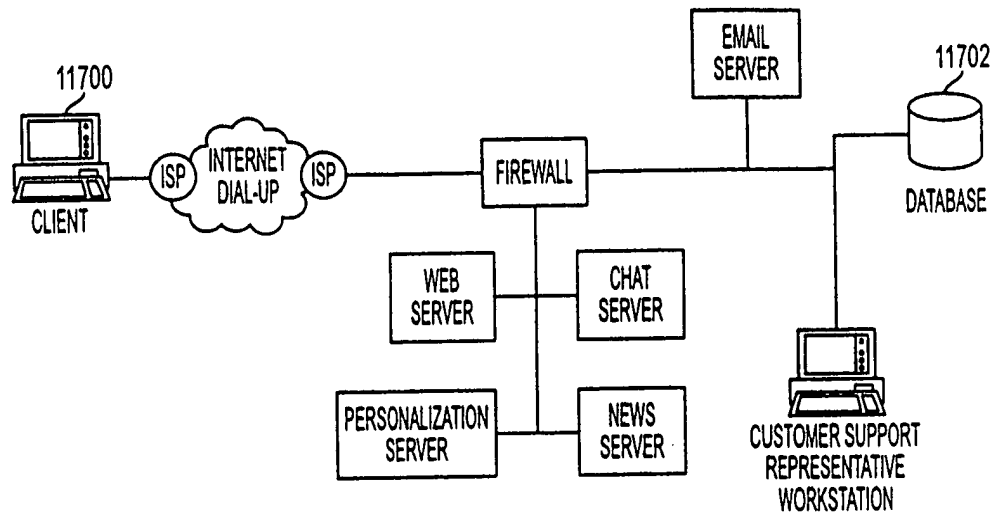


FIG. 117

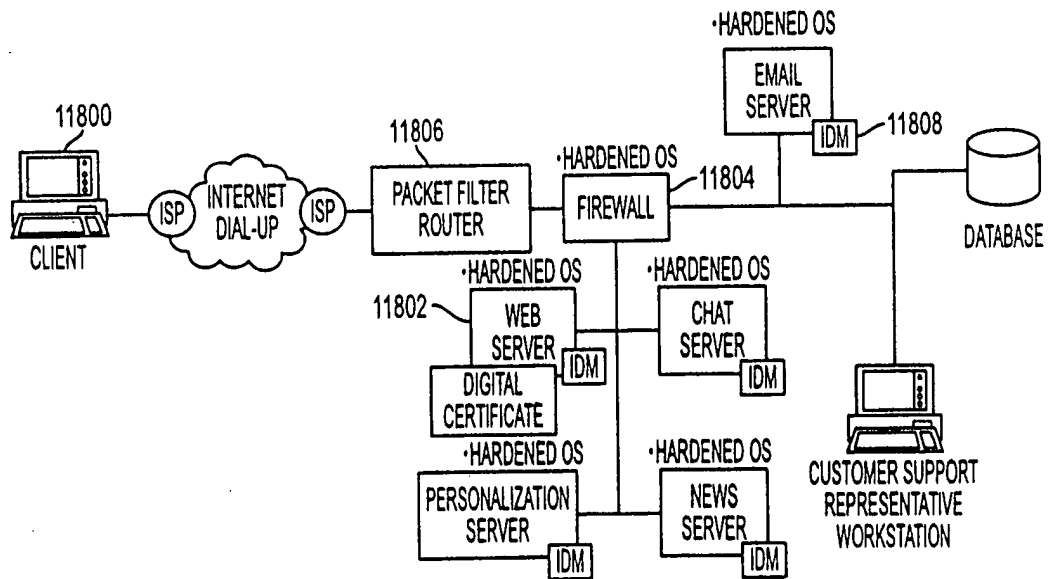


FIG. 118

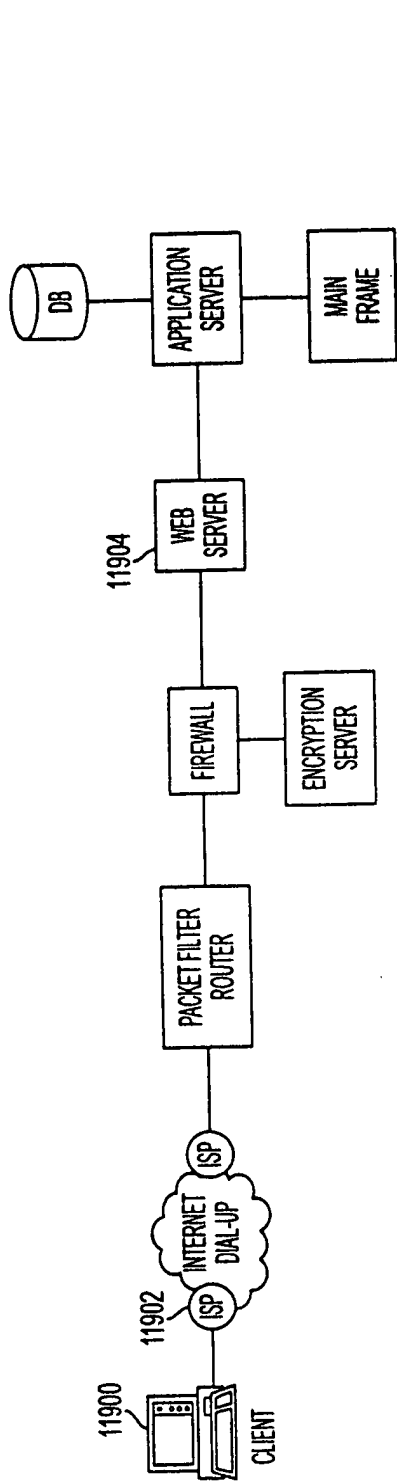


FIG. 119

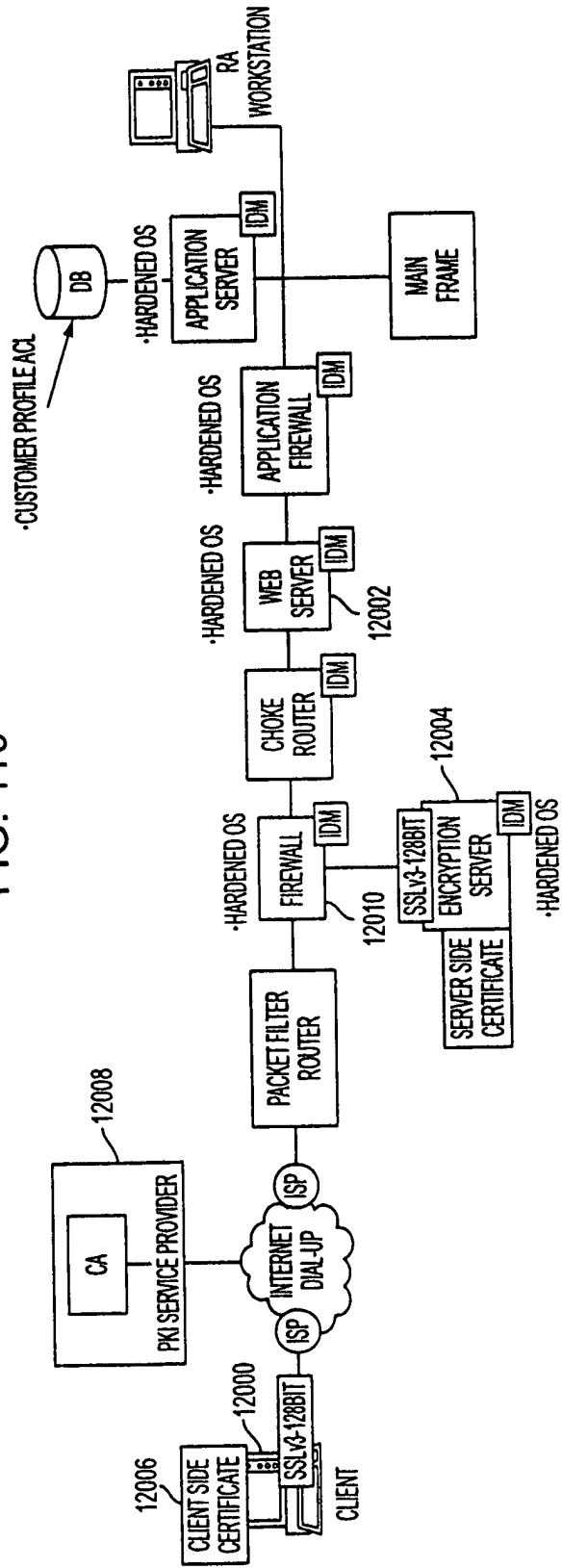


FIG. 120

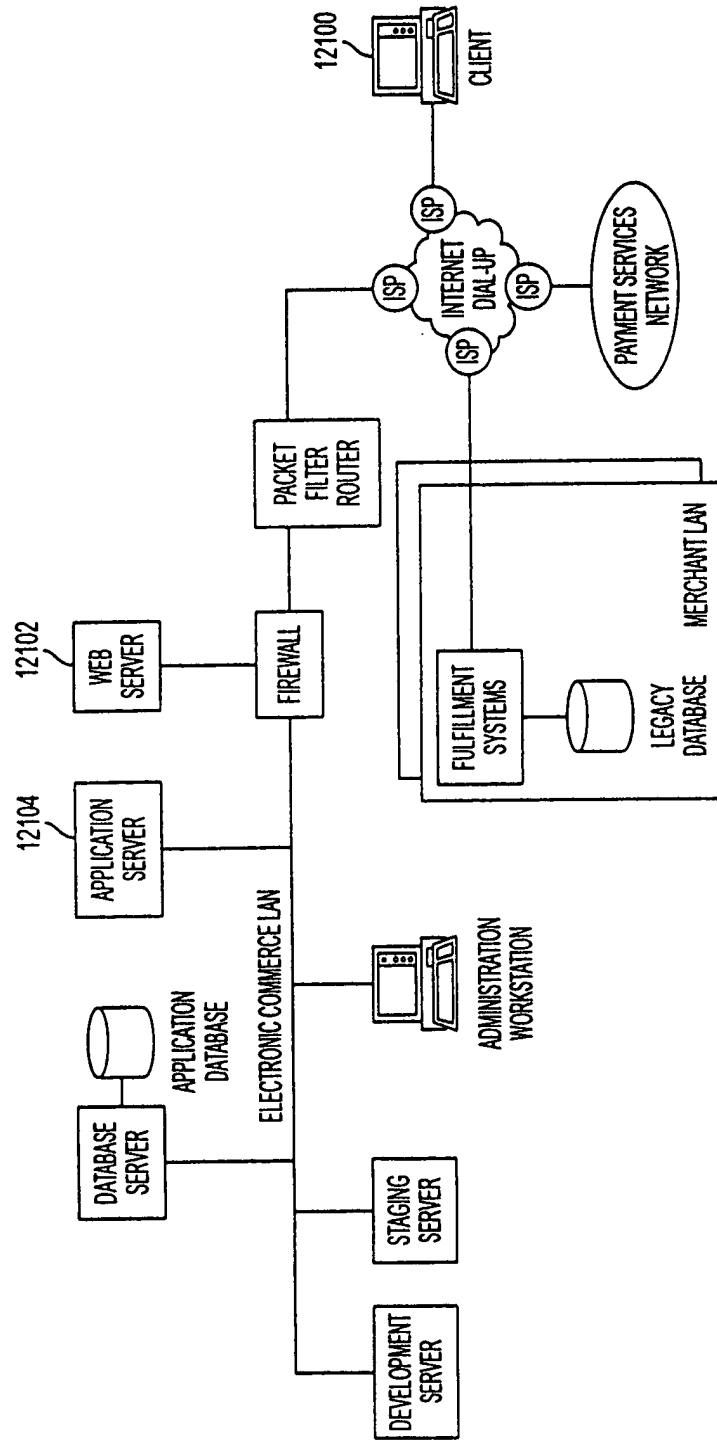


FIG. 121

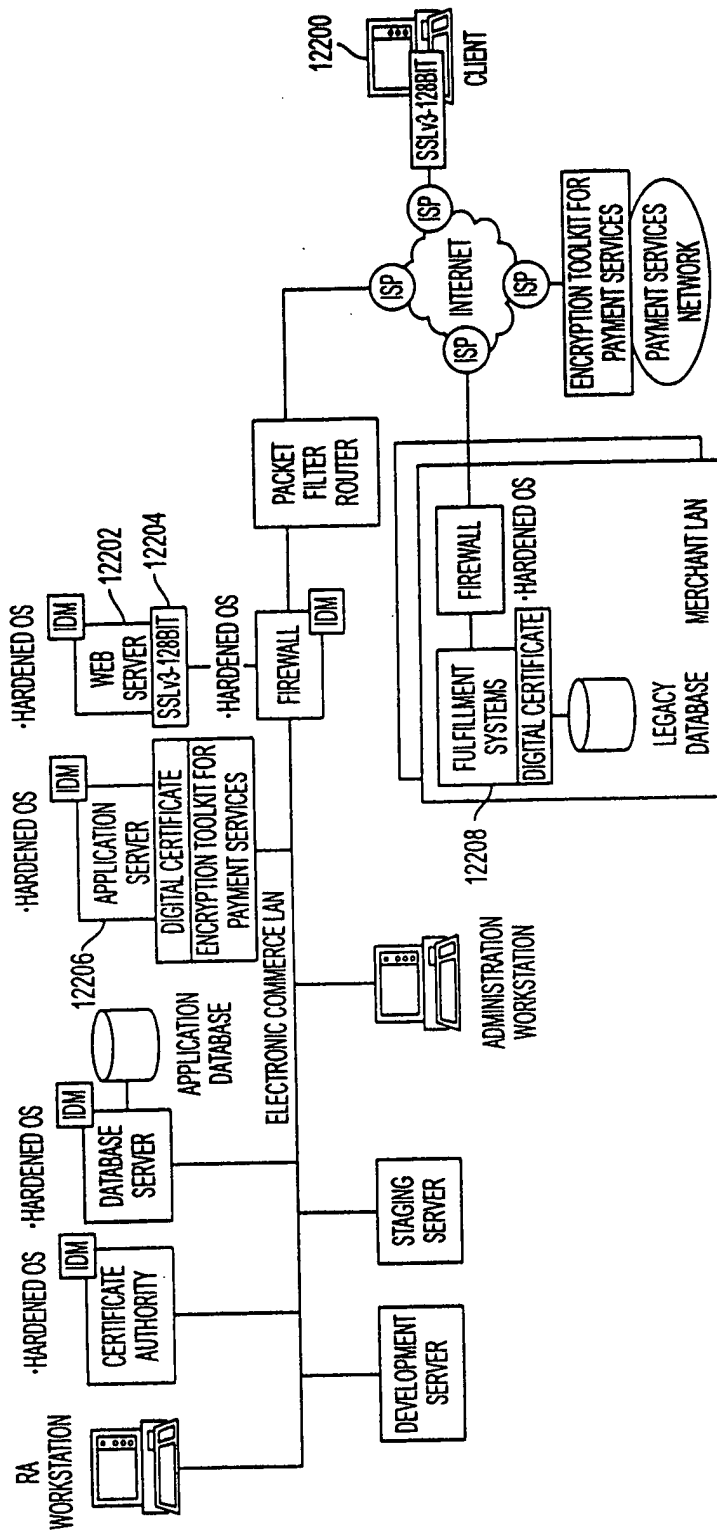


FIG. 122

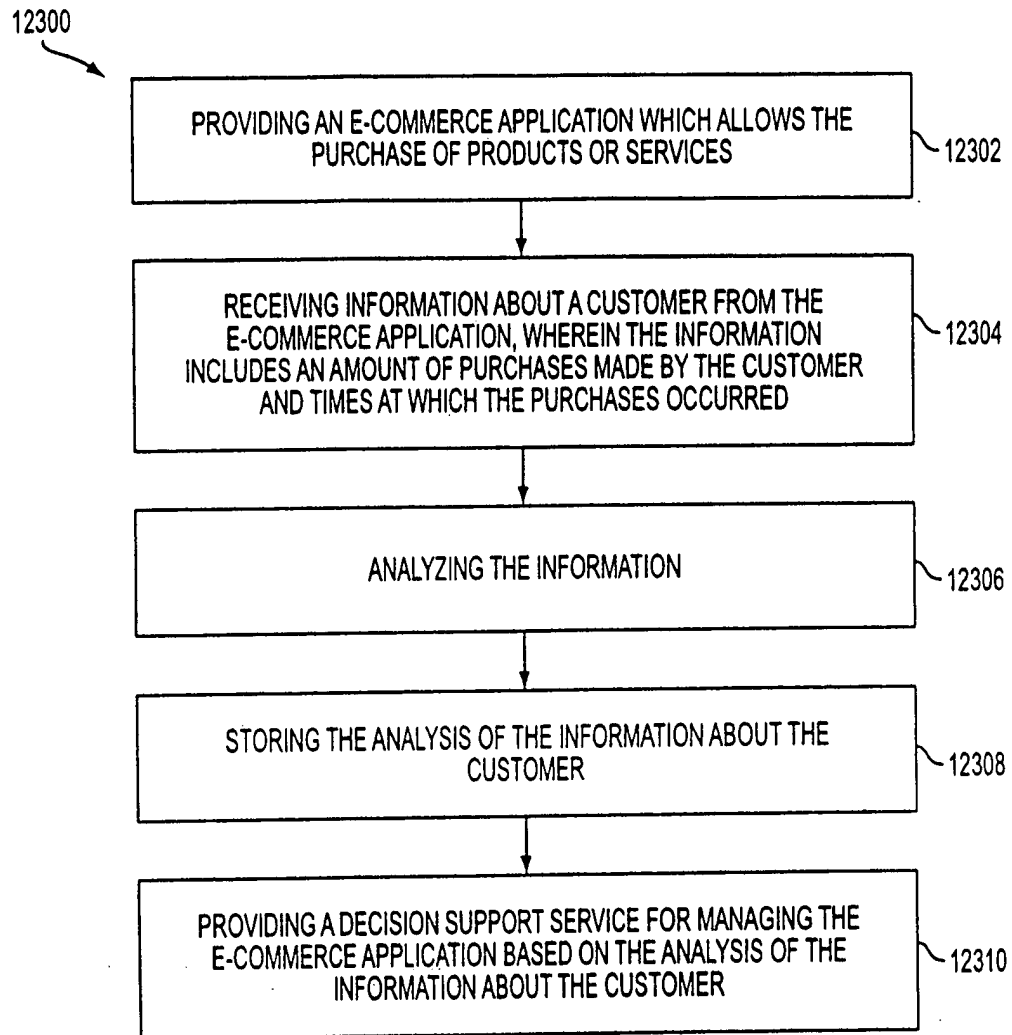


FIG. 123

9016

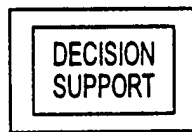


FIG. 124

9018



FIG. 125



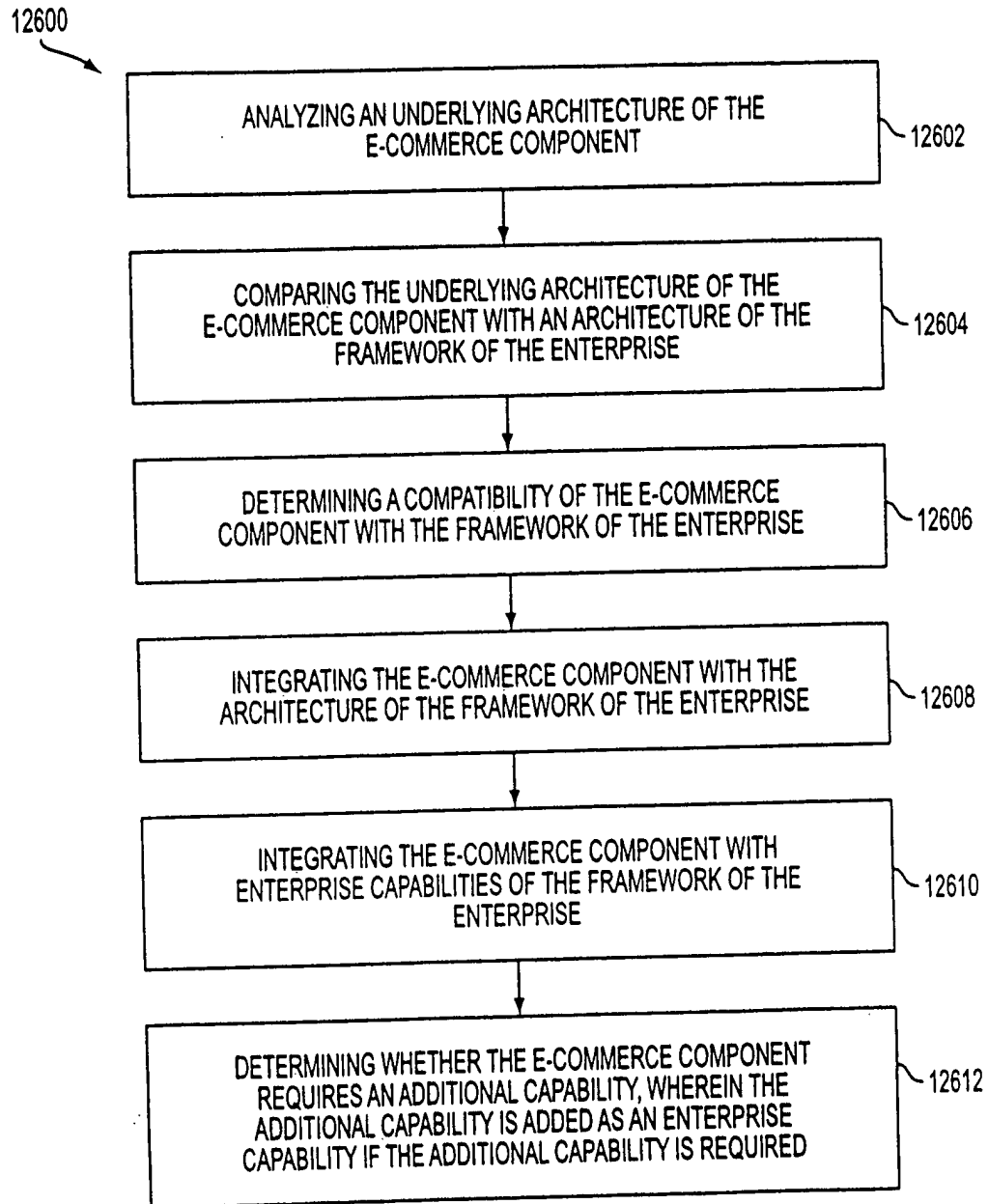


FIG. 126

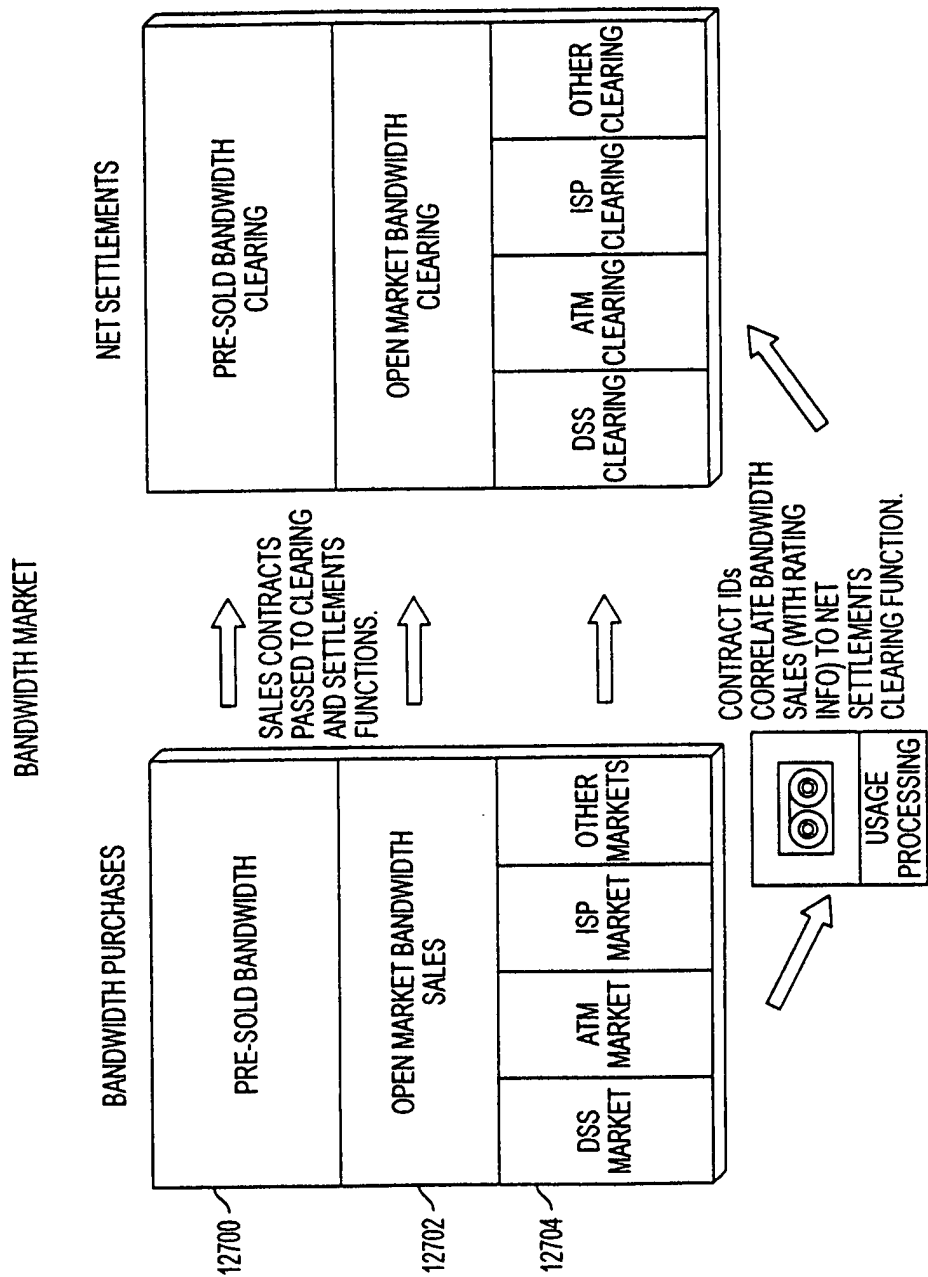


FIG. 127

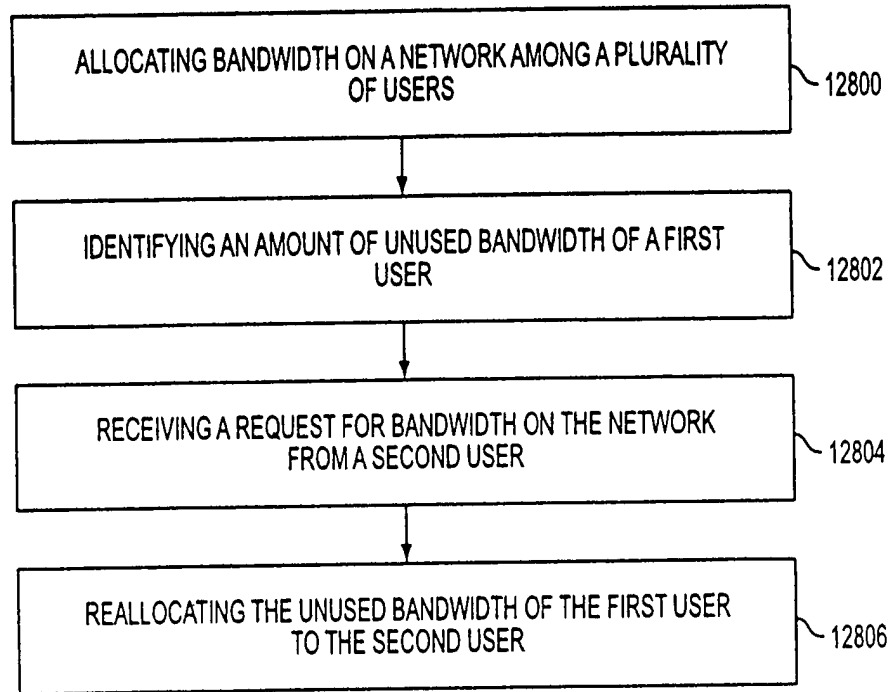


FIG. 128

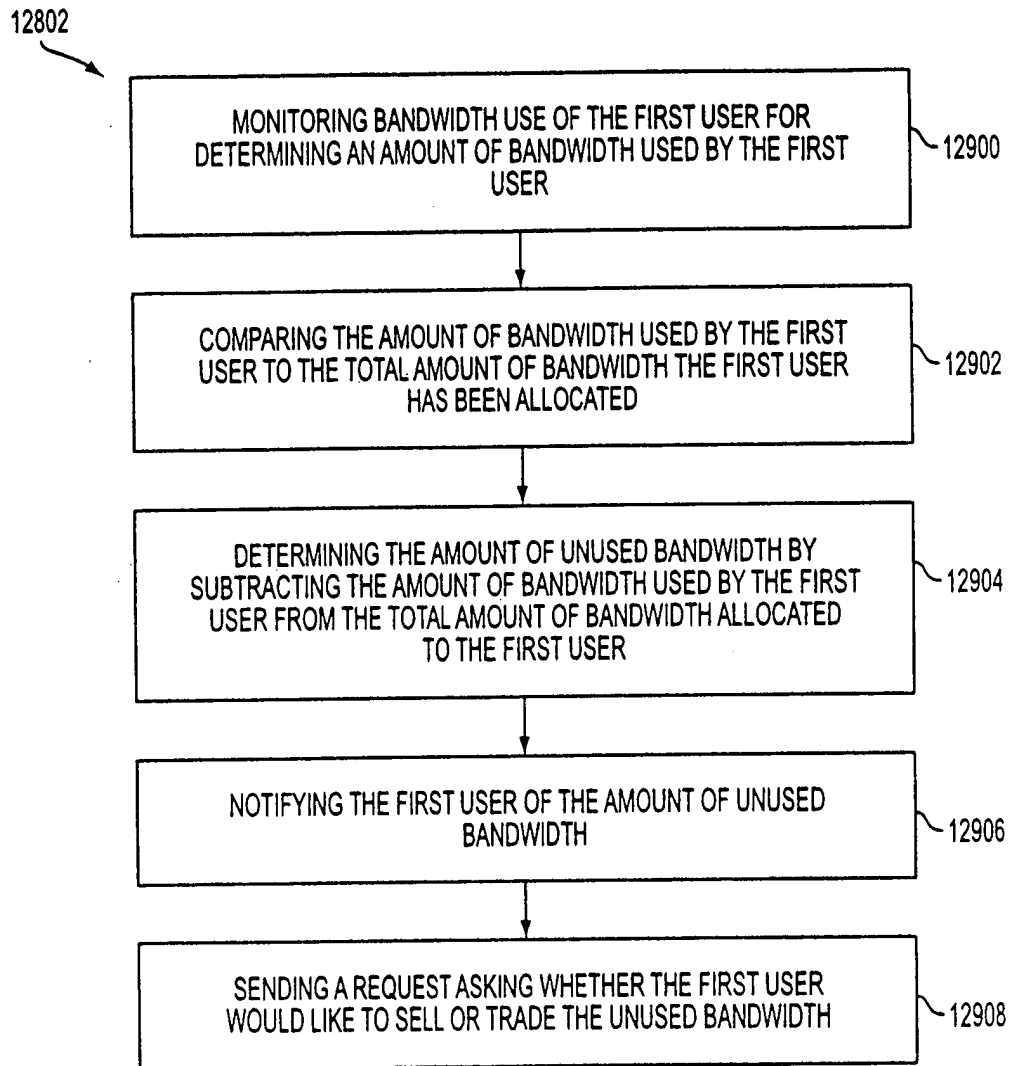


FIG. 129

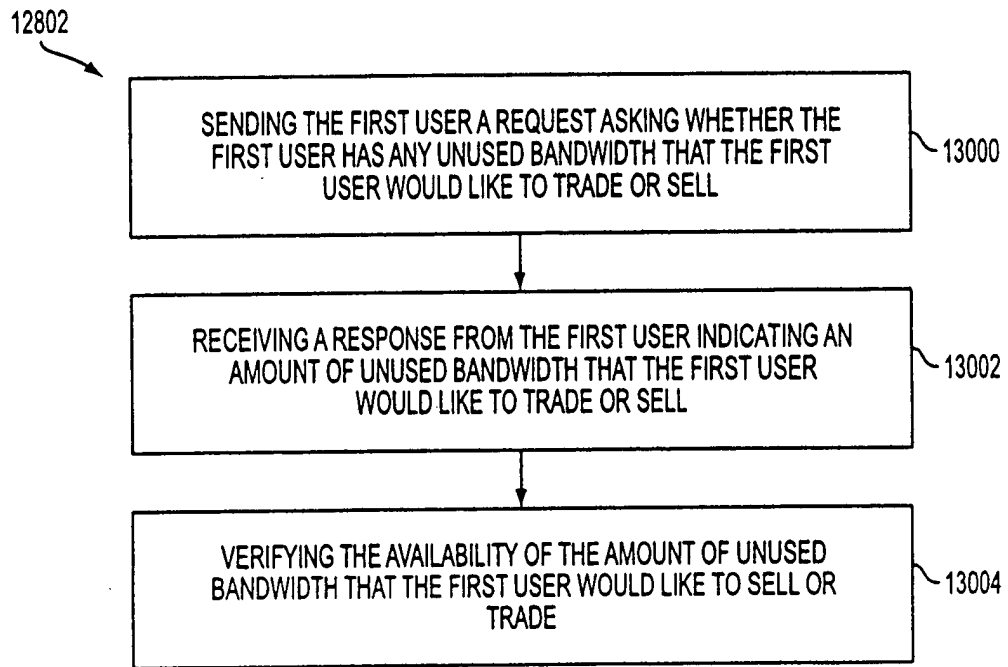


FIG. 130

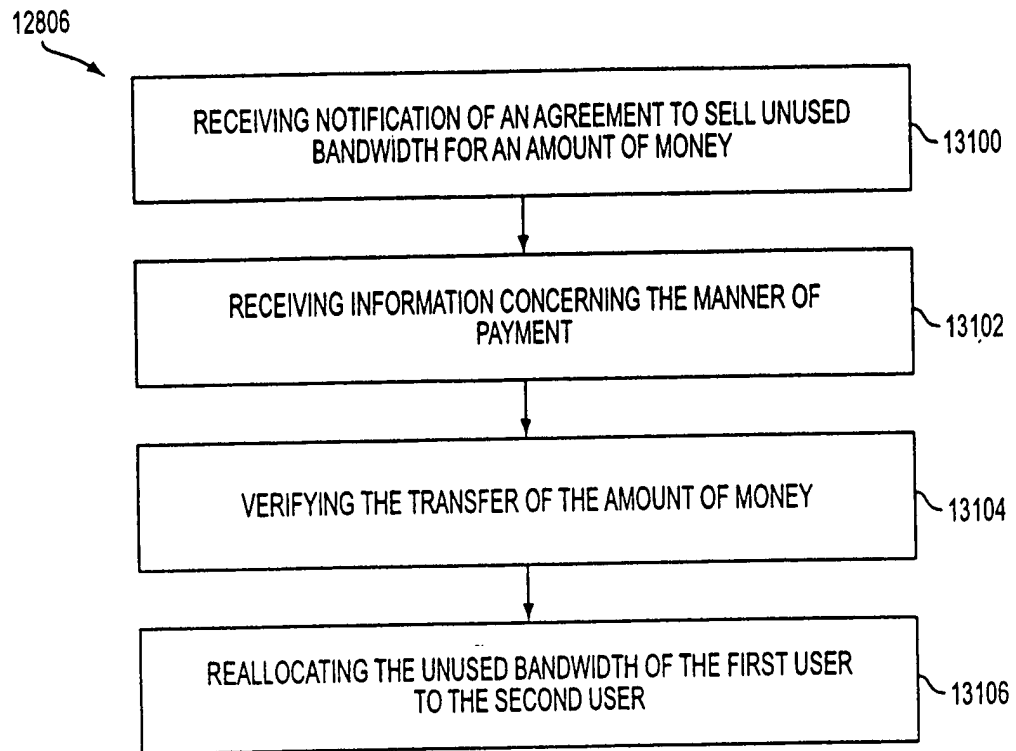


FIG. 131

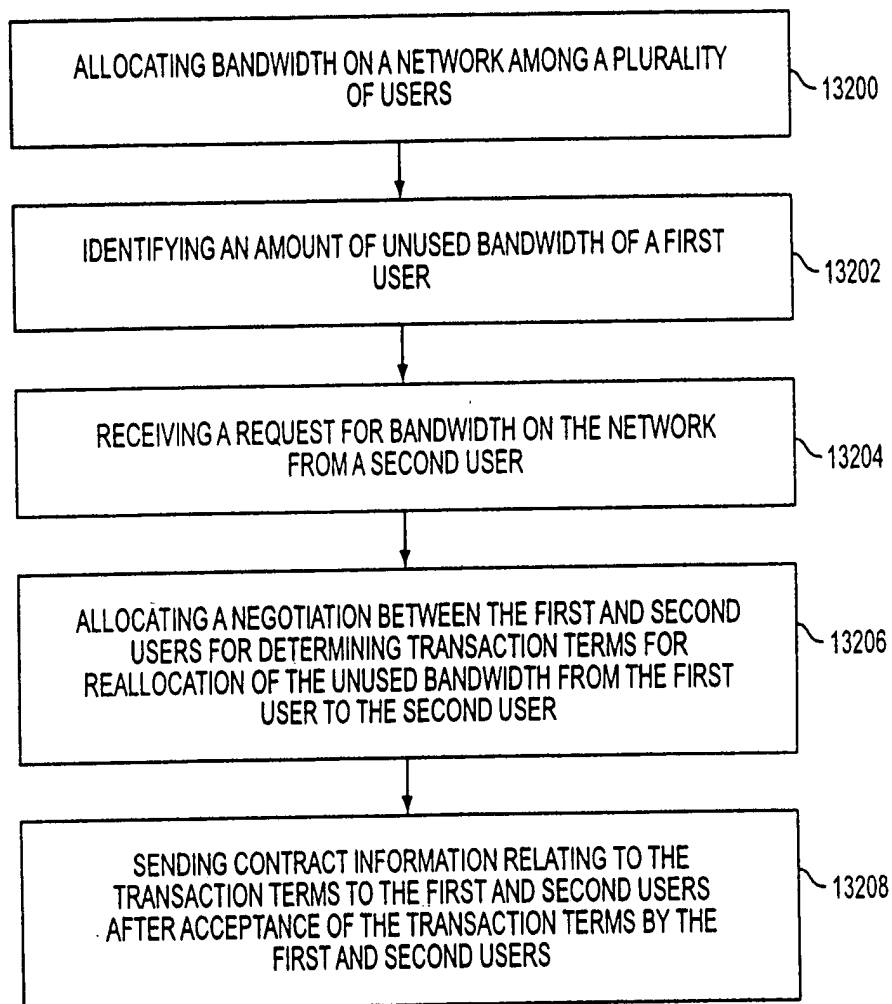


FIG. 132

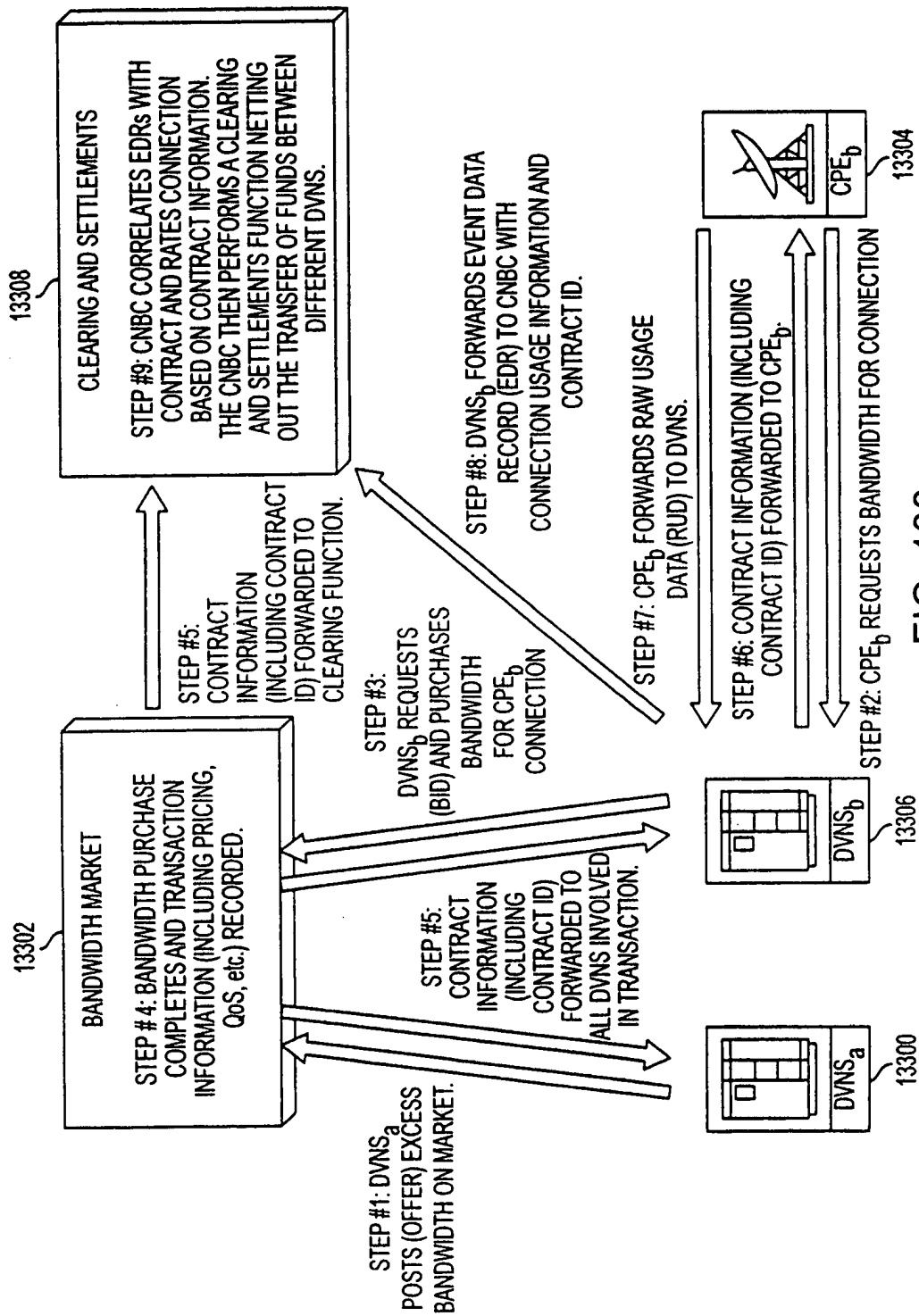


FIG. 133



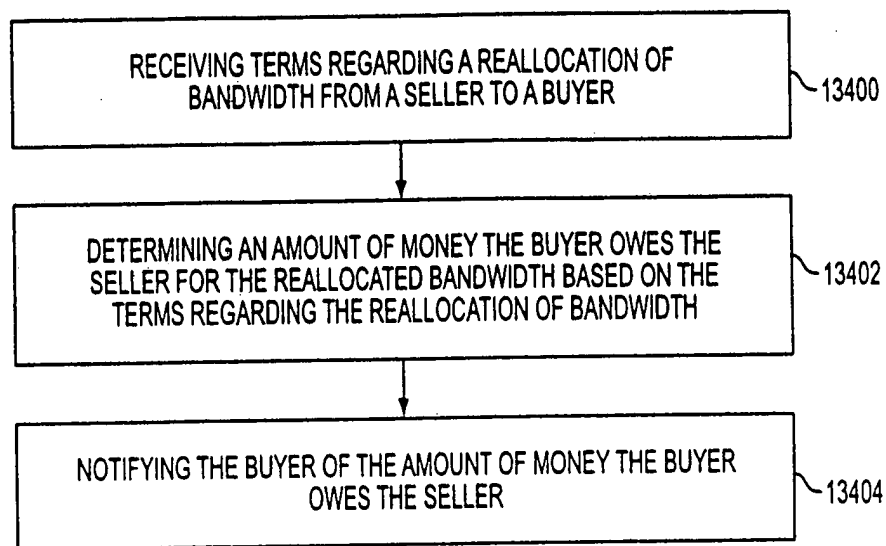


FIG. 134

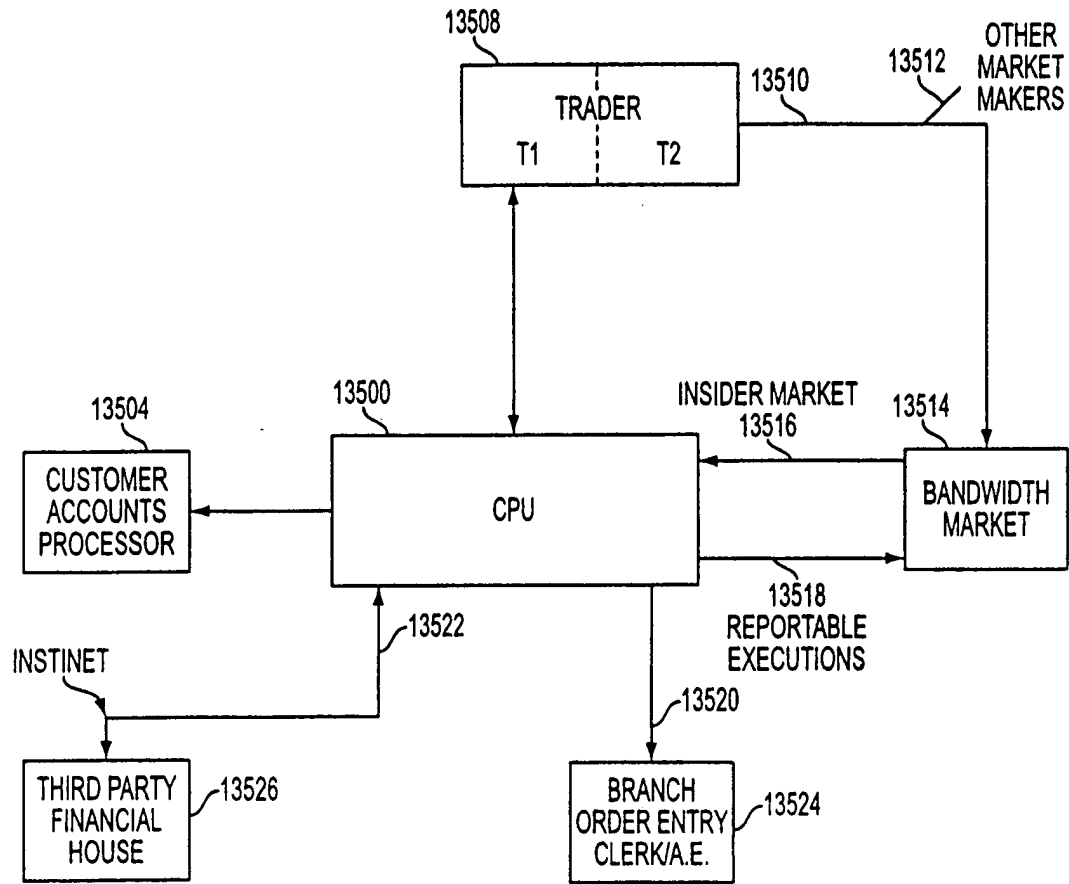
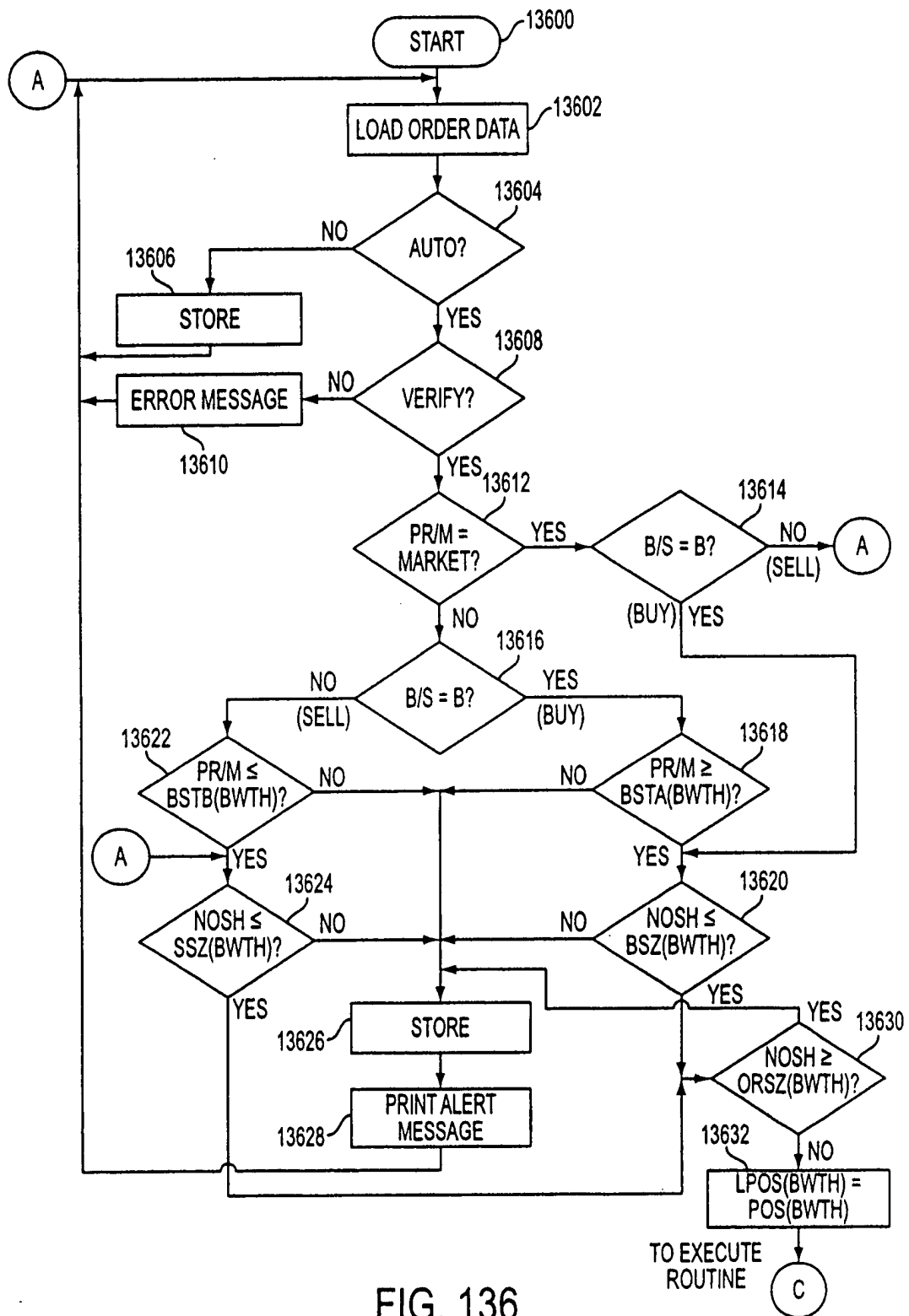


FIG. 135



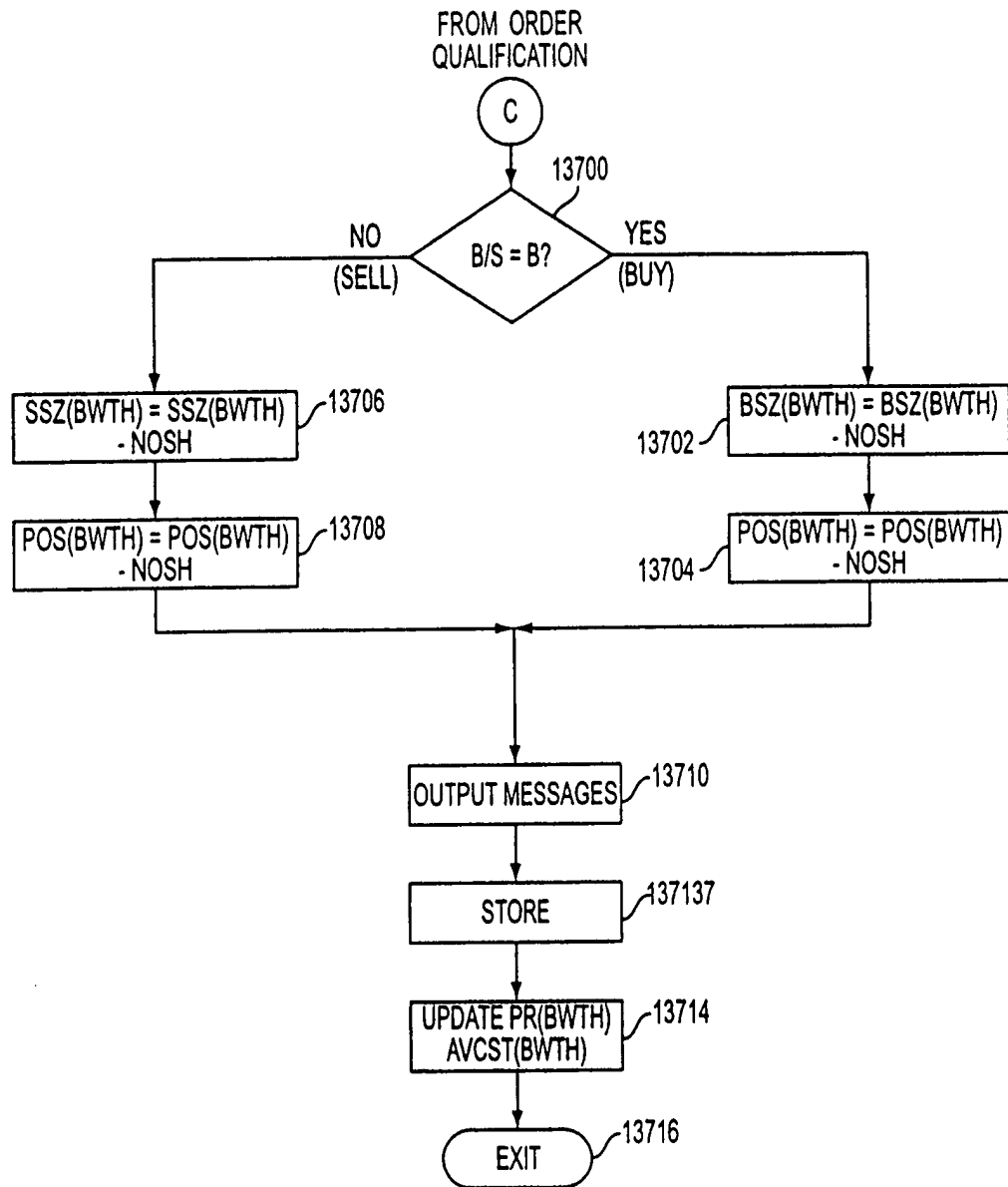


FIG. 137

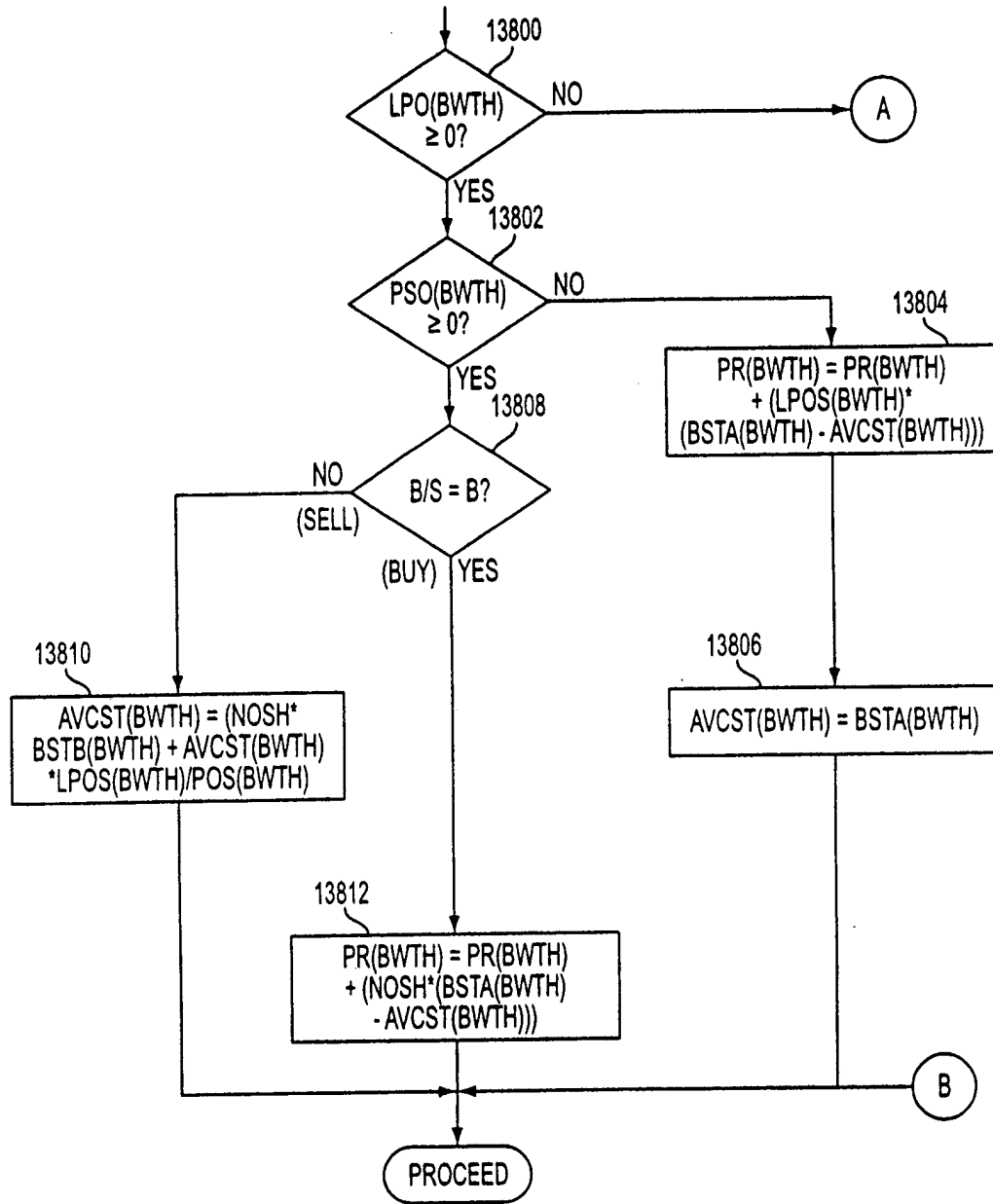


FIG. 138